Non-Profit Org
U.S. Postage
PAID
Permit No. 96
Washington, D.C

THE AMERICAN UNIVERSITY
WASHINGTON, D.C.

Catalog 1987-1988

Digitized by the Internet Archive
in 2010 with funding from
Lyrasis Members and Sloan Foundation

http://www.archive.org/details/generalinformati1987amer

The American University

1987–1988
Edition

General information catalog
effective Fall 1987

Washington, D.C.

Correspondence Directory

Admission
Office of Admissions, Asbury Building
Housing
Director of Residential Life, McDowell Hall
Scholarships and Loans
Office of Financial Aid, Asbury Building
Part-Time Employment
Director for Placement, Career Center, Annex 1
Program Information
Appropriate college, school, or department
Records and Transcripts
Office of the Registrar, Asbury Building
International Student Adviser
International Student and Faculty Services, Mary Graydon Center
Financial Transactions
Office of Student Accounts, Asbury Building
News and Public Information
Office of University Relations, Hamilton Building
Alumni
Alumni Office, Hamilton Building
Student Activities
Division of Student Life, Mary Graydon Center

For additional information, call, write, or visit:
Office of Admissions, Asbury Building
The American University
4400 Massachusetts Avenue, N.W.
Washington, DC 20016
(202) 885–6000

The American University is published by
The Office of the University Registrar
Donald W. Bunis, University Registrar
Maxine L. Hattery, Editor
Laura L. Redford, Senior Publications Assistant

In cooperation with
The Office of University Relations
Martha Robinson, Director of University Publications and Printing

And prepared through computerized composition methods by
The Department of Computer Services
Robert G. Ogilvie, Director

Limitations on Catalog Provisions

The educational process necessitates change. This publication must be considered informational and not binding on the university.

Each step of the educational process, from admission through graduation, requires appropriate approval by university officials. The university must, therefore, reserve the right to change admission requirements or to refuse to grant credit or a degree if a student does not satisfy the university, in its sole judgment, that he or she has satisfactorily met its requirements.

Equal Opportunity

The American University provides equal opportunity for all qualified persons in its educational programs and activities. The university does not discriminate on the basis of race, creed, color, national origin, age, handicap, or sex. The policy of equal opportunity applies to every aspect of the operations and activities of the university generally, and that indeed extends to admissions and to employment.

Contents

Correspondence Directory 2
Introduction 5
Enrollment, 1985–1986 9
Degrees Conferred, 1985–1986 9
Fields of Study 11
Academic Calendar 13
Undergraduate Study 15
Admission 15
Degrees 18
Fields of Study 19
Degree Requirements 20
Academic Standards 21
Special Opportunities 23
Graduate Study 25
Admission 25
Degree Requirements 31
Academic Standards 33
Nondegree Study 35
International Student Information 37
Tuition, Expenses, and Financial Aid 39
Tuition and Expenses 39
Financial Aid 41
Student Life and Services 53
Division of Student Life 53
Office of Minority Affairs 56
Student Organizations 56
Services 57
General Academic Regulations and Information 59
General Academic Information 59
General Curricular Information 62
Confidentiality of Student Records 64
Code of Conduct 65
General Information 66
College of Arts and Sciences 67
American Studies 69
Anthropology 70
Art 73
Audio Technology 78
Biology 79
Chemistry 83
School of Communication 87
Community Studies 92
Computer Science 93
Economics 95
School of Education 101
English Language Institute 106
History 107
Interdepartmental Science 109
Jewish Studies 110
Language and Foreign Studies 111
Literature 116
Mathematics 120
Performing Arts 124
Philosophy and Religion 129
Physical Education 132
Physics 133
Pre-engineering 135
Prelaw 136
Premedicine, Predentistry, Preveterinary 137
Psychology 137
Sociology 141
Statistics 145
Women's Studies 148
Kogod College of Business Administration 151
Washington College of Law 161
Lucy Webb Hayes School of Nursing 163
College of Public and International Affairs 165
School of Government and Public Adminsitration 166
Center for Public Financial Management 171
School of International Service 175
School of Justice 183
Center for Technology and Administration 187
Continuing Education 193
Special University Programs for Study and Research 197
Career Center 197
University Honors Program 198
Interdisciplinary Studies 199
Study Abroad Programs 200
Washington Semester Program 202
Other Programs 203
Courses of Instruction 205
Full-Time Faculty, 1986–1987 313
Adjunct Faculty, 1986–1987 324
University Administration and Board of Trustees 344
Index of Courses and Course-Number Prefixes 345
Index 347
Campus Map 352

President and Mrs. Richard Berendzen greeting students and their parents on the university quad

Introduction

The programs in this catalog reflect The American University's academic tradition and its development as a comprehensive university in the nation's capital.

Chartered in 1891 and incorporated by Act of Congress in 1893, the university was founded as a Methodist-related graduate school of history and public affairs. Today American offers a wide range of graduate and undergraduate degree programs, and nondegree study as well, through its five major divisions: the College of Arts and Sciences, which comprises more than twenty teaching units including the School of Communication and the School of Education; College of Public and International Affairs, incorporating the School of Government and Public Administration, School of International Service, School of Justice, and Center for Technology and Administration; Kogod College of Business Administration; Washington College of Law; and Lucy Webb Hayes School of Nursing.

Faculty

The distinguished faculty of The American University includes renowned experts and scholars: artists, performers, novelists, scientists, business leaders, and poets of national and international reputation.

To its full-time faculty of 414, the university adds 675 adjunct faculty members drawn from Washington's professional community. A course in government at American might be taught by a White House aide or past presidential candidate, a communication course by a Pulitzer Prize–winning journalist, or a history course by a curator of the Smithsonian. Even heads of state have taught at American.

Resources of Washington, D.C.

The resources of a capital city are unlike any other in the world. Next to government, education is the largest industry in the District of Columbia. Washington has become an important business and financial center, with more associations and trade organizations than New York City. Some 140 foreign embassies and chanceries and the headquarters of many international organizations are located in the city.

But most important, Washington is a city of learning resources in every discipline, from the arts to the sciences to public affairs. The Smithsonian Institution, the John F. Kennedy Center for the Performing Arts, the National Institutes of Health, the National Library of Medicine, the Library of Congress, the World Bank, the National Archives, the Brookings Institution, the Chamber of Commerce of the U.S.A. are all located in Washington, D.C.

The libraries, museums, and art galleries of Washington contain unsurpassed collections. These resources become sites of research, field trips, internships, cooperative education placements, part-time jobs. Because of these resources American's students can put their education to work as they could nowhere else in the country.

The Campus

Massachusetts Avenue runs from the bustle of downtown Washington, through embassy row, by the Washington Cathedral, through wooded Glover-Archbold Park, to Ward Circle. Here on the hill where Massachusetts and Nebraska avenues meet, sits the seventy-eight-acre campus of The American University. In a beautiful residential area, the campus is a tranquil setting for study.

As a part of, yet apart from, the city, The American University is near shopping centers and is only a short drive or bus ride to important points around Washington. A subway station is located not far from campus.

The thirty-five buildings on the campus include the university library and law library, residence halls, an interdenominational religious center, and a campus center.

Tenley Campus, a recently acquired satellite campus located one mile from the university's main site, will be the new location of the Washington Semester program starting in the fall of 1987.

University Library

The University Library contains over 470,000 volumes and more than 500,000 microforms. Over 2,600 periodical titles are received each year. Special collections include the Artemus Martin Collection of rare materials on mathematics and the Spinks Collection of rare Japanese materials. On-line bibliographic search services are available at cost through the reference department, which also provides a broad range of bibliographic instruction programs. The library is a member of the OCLC library network, which provides on-line access to bibliographic information and holdings for over seven million items in 2,000 member libraries.

The American University is a member of the Consortium of Universities of the Washington Metropolitan Area (including eight universities and three colleges). Consortium policy permits any currently enrolled graduate-degree student to obtain a consortium card which gives the holder direct borrowing privileges at the main libraries of the other member institutions. Materials not available in the university library may also be requested by graduate students through the interlibrary loan services of the library.

Since January 1979 the library has been housed in the Jack I. and Dorothy G. Bender Library and Learning Resources Center. The facility includes an audio-visual center and microform services.

Science Laboratories

Extensive laboratory facilities in the Beeghly Chemistry Building include modern teaching and research laboratories and such specialized facilities as animal rooms, a dark room, a controlled temperature room, and instrument rooms. Spectrophotometers, including nuclear magnetic resonance, mass, ultraviolet, infrared, visible, emission, fluorescence, and atomic absorption, are available.

Research facilities of the Department of Physics, housed in the McKinley Building, include general and advanced laboratories, a minicomputer room, electronics and audio technology equipment, a recording studio, an electronic-music studio, a machine shop, and Mossbauer, critical phenomena, kinetic molecular, and laser laboratories. Nuclear research is carried out under a cooperative arrangement with the Stanford Linear Accelerator Center.

The undergraduate teaching laboratories of the Department of Biology were recently remodeled with new equipment and modern instrumentation. Cooperative agreements with various government laboratories make possible opportunities for environmental and ecological research.

Language Laboratory

The language laboratory in the Asbury Building can serve up to ninety students simultaneously. A closed-circuit television system is installed in ten laboratory carrels.

Media Center

The Media Center includes the 100-seat Mark Wechsler Theatre for video and film projection and analysis.

Music

The Kreeger Music Building, housing the Department of Performing Arts, has 25 practice rooms, 20 of them with pianos, a chamber-music recital hall seating 175, and one large rehearsal space. Housed within the building is the Record-Score Collection administered by the university library. It has facilities for TV tape viewing and record and tape listening. Available through the university library and music library are over 10,000 volumes of music scores and books and over 10,000 disc recordings. Housed elsewhere in the building is a large collection of choral, orchestral, jazz, and symphonic wind scores.

Art

The Art Department is mainly housed in the Watkins Art Building with additional classrooms and studio space in the McKinley Building. There are classrooms with special equipment to handle drawing, painting, printmaking, etching, sculpture, design, and ceramics classes as well as art history classes. The department also maintains the Watkins Gallery, a long-established gallery with changing exhibitions, including the Watkins Collection and works by faculty, students, and other artists.

Radio

WAMU-FM is the public radio service of The American University. A 50,000 watt, twenty-four-hour FM station with listeners throughout the Washington-Baltimore area, WAMU-FM offers a diverse, commercial-free radio service 365 days a year. WAMU-FM is financed through funds from The American University, public and private grants, and contributions by the listening public. The station is a member of National Public Radio. American University work-study students aid the director, assist in writing news clips, and contribute to research and development efforts.

WVAU is an on-campus station run entirely by students. It offers music, news, and public affairs coverage twenty-four hours a day.

Computing Center

The center serves the research and instructional needs of both faculty and students. The primary processor is an IBM 4381 computer system with OS batch and CMS and MUSIC interactive systems. Languages used at the Computing Center include PASCAL, LISP, PROLOG, AND COBOL. There are about 150 timesharing terminals and 100 IBM PC microcomputers in five laboratories on campus. Students' adaptable microcomputers and terminals can be connected to the the university timesharing system from dormitory rooms.

Recreational Facilities

The university maintains on-campus facilities for a variety of recreational activities. Cassell Center has a billiard and game room, a weight room, a karate and exercise studio, golf practice nets, a swimming pool, and a basketball gymnasium.

Outdoor facilities include tennis courts and hitting boards, a quarter-mile cinder track, softball diamonds, basketball courts, and a soccer field.

These facilities will be significantly improved with the Adnan Khashoggi Sports and Convocation Center, scheduled for completion in late 1987.

University Profile

Historical Origins

Chartered in 1891; incorporated by Act of Congress in 1893 as a Methodist Church–related institution. First building completed in 1898; first graduating class, 1916.

Character

Independent, coeducational.

Location

Residential area of Northwest Washington, D.C.

Academic Programs

62 Bachelor's programs.
77 Master's programs.
17 Doctoral programs.
J.D. and LL.M.
Other specialist and certificate programs, as well as an associate degree program.

Academic Divisions

College of Arts and Sciences: twenty-two teaching units including the schools of communication and education.
Kogod College of Business Administration.
College of Public and International Affairs: School of Government and Public Administration, School of International Service, School of Justice, and Center for Technology and Administration.
Washington College of Law.
Lucy Webb Hayes School of Nursing.

Special Programs

Cooperative education and internships on undergraduate and graduate levels.
Study abroad programs: undergraduate and graduate opportunities for short-term or extended study in Europe: languages, politics, justice, and general studies.
Washington semester programs in American government, foreign policy, economic policy, justice, journalism, and arts and humanities.
Consortium of Universities of the Washington Metropolitan Area: Courses not offered by The American University may be taken for credit, by special arrangement, at any one of the ten other Washington, D.C., colleges and universities.
Office of Continuing Education and Conferences: graduate, undergraduate, and noncredit programs, courses, and workshops.

Calendar

Two semesters, summer sessions.

Student/Faculty ratio

15:1.

Number of Faculty

414 full-time faculty, 675 part-time faculty (most of whom are professionals working in their subject fields). Of full-time faculty, 88% hold doctoral degrees or the highest degree in their field.

Freshman Profile:

Fall 1986 entering freshmen had average combined SAT scores of 1103; 50% of these 1067 new freshmen had high-school grade-point averages above 3.0.

Financial Aid:

Approximately 60% of the student body receives some form of financial aid.

Facilities/Physical Plant:

The 78-acre campus has 16 classroom buildings, 6 residence halls and an off-campus apartment complex, a library, a computer center able to accommodate 3,000 users each semester, a broadcast center, student union, an interdenominational religious center, and recreational facilities.

Student Services

Career Center, Psychological and Learning Services, Child Development Center, and Student Health Center.

Library

473,428 volumes; 500,316 microforms; 2,689 periodicals; 10,876 nonprint media materials; on-line databases through BRS and Dialog.

Law Library

129,189 volumes; 509,316 microforms; Lexis, Westlaw, BRS, Dialog, ELSS, Autocite, Vutext data bases.

Students have access to holdings at many national libraries in the nation's capital; graduate-degree students may have borrowing privileges at other college and university libraries in the Washington consortium.

Extra-curricular activities

Wide range of clubs and organizations, fraternities and sororities, and varsity, recreational, and intramural sports.

Residence Halls

Six residence halls accommodate 2,700 students each year. On-campus living is optional. One dormitory houses both American and international students.

An apartment building housing 150 graduate students is located within a mile of the campus.

Completion of a new residence hall to accomodate 400 students is planned for the fall of 1987.

Admission

Freshman—based on secondary school record, SAT or ACT scores, and relevant achievement tests for some fields. Early-decision admission offered.
Transfer—secondary and/or college records, SAT scores.
Graduate—bachelor's degree from accredited institution, undergraduate and graduate records, GPA average, and other standards where applicable.

Accreditation

The American University is accredited by the Middle States Association of Colleges and Secondary Schools. It

is recognized by the National University Extension Association, the Adult Education Association of the U.S.A., and the University Senate of the United Methodist Church.

A number of programs are also individually accredited by professional organizations, including:

School of Education—National Council for Accreditation of Teacher Education and the National Association of State Directors of Teacher Education and Certification (both elementary and secondary)

School of Nursing—National League of Nursing

Department of Chemistry—American Chemical Society

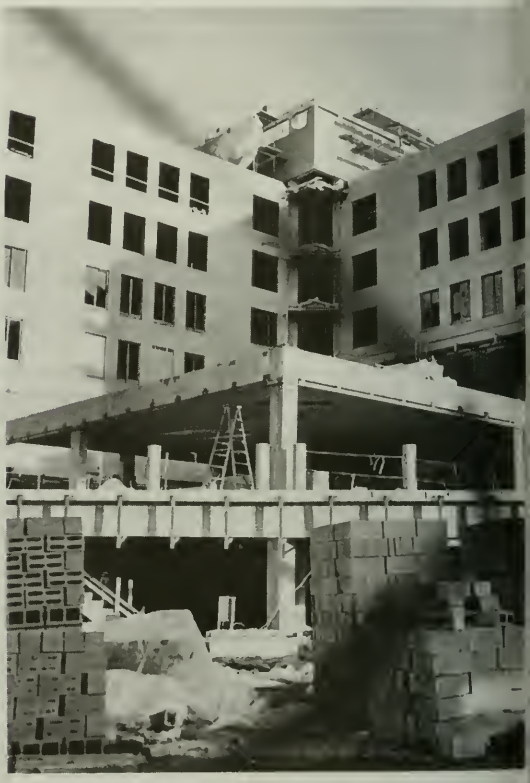
Department of Psychology (doctoral training program in clinical psychology)—American Psychological Association

School of Communication—B.A. program in Communication (broadcast journalism, print journalism, and public communication), Accrediting Council on Education in Journalism and Mass Communications. M.A. program in Journalism and Public Affairs, American Council on Education for Journalism

School of Government and Public Administration is an institutional member of the National Association of Schools of Public Affairs and Administration.

School of International Service is a member of the Association of Professional Schools of International Affairs.

School of Justice is a member of the Academy of Criminal Justice Sciences.



Part of AU's expansion—constructing a sports and convocation center and 396-bed residence hall

Enrollment

1985–1986 Academic Year

Full-time undergraduates	4,378
Part-time undergradutes	664
Full-time and part-time graduate students including Washington College of Law	4,245
Nondegree students	1,835
Total	11,122

Degrees Conferred

1985–1986

College/School	*Associate*	*Bachelor's*	*Master's*	*Ph.D.*	*Ed.D.*	*J.D.*	*Total*
Arts and Sciences, College of	10	395	306	55	4	–	770
Business Administration, Kogod College of	–	287	243	–	–	–	530
Law, Washington College of	–	–	33	–	–	331	364
Nursing, Lucy Webb Hayes School of	–	43	–	–	–	–	43
Public and International Affairs, College of	6	307	419	8	–	–	740
Business Administration, Kogod College of and Arts and Sciences, College of, jointly conferred	–	–	16	–	–	–	16
University Total	16	1,032	1,017	63	4	331	2,463

JACK I and DOROTHY G. BENDER
LIBRARY and LEARNING RESOURCES CENTER

Fields of Study

Undergraduate

Accounting (B.S.B.A.)
American Studies (B.A.)
Anthropology (B.A.)
Art History (B.A.)
Audio Technology (B.S.)
Biology (B.A., B.S.)
Business Management Information Systems (B.S.B.A)
Chemistry (B.S.)
Communication (B.A.)
Communication, Legal Institutions, Economics, and Government (B.A.)
Computer Science (B.S.)
Computer Systems Applications (B.S.T.M.)
Design (B.A.)
Distributed Science (B.S.)
Economic Theory (B.A.)
Economics (B.A.)
Education, Early Childhood and Elementary (B.A.)
Environmental Studies (B.A., B.S.)
Finance (B.S.B.A.)
Fine Arts (B.F.A.)
Foreign Language and Communication Media (B.A.)
French Studies (B.A.)
French/West European Area Studies (B.A.)
General Studies (A.A., B.G.S.)
German Studies (B.A.)
German/West European Area Studies (B.A.)
History (B.A.)
Interdisciplinary Studies (B.A., B.S.)
International Business (B.S.B.A.)
International Studies (B.A.)
Jewish Studies (B.A.)
Justice (B.A.)
Law and Society (B.A.)
Literature (B.A.)
Literature: Cinema Studies (B.A.)
Marketing (B.S.B.A.)
Mathematics (B.S.)
Mathematics, Applied (B.S.)
Music (B.A., B.Mus.)
Nursing (B.S.)
Performing Arts: Theatre (B.A.)
Personnel and Industrial Relations (B.S.B.A.)
Philosophy (B.A.)
Physics (B.S.)
Political Science (B.A.)
Psychology (B.A., B.S.)
Public Systems Management (B.S.T.M.)
Real Estate and Urban Development (B.S.B.A.)
Real Estate Finance (B.S.B.A.)
Religion (B.A.)
Russian Studies (B.A.)
Russian/USSR Area Studies (B.A.)
Sociology (B.A.)
Spanish/Latin American Area Studies (B.A.)
Spanish Studies (B.A.)
Statistics (B.S.)
Studio Art (B.A.)

Graduate

Accounting (M.B.A., M.S.)
Anthropology (M.A., Ph.D.)
Anthropology, Applied (M.A.)
Art History (M.A.)
Biology (M.A., M.S.)
Chemistry (M.S., Ph.D.)
Communication: Journalism and Public Affairs (M.A.)
Computer Science (M.S.)
Counseling and Development (Ed.D., Ph.D.)
Creative Writing (M.F.A.)
Development Banking (M.A.)
Development Management (M.S.)
Economic Communication (M.A.)
Economics (M.A., Ph.D.)
Economics, Applied (M.A.)
Education (M.A.)
Educational Administration (M.Ed., Ed.D., Ph.D.)
Film and Video (M.A.)

Finance (M.B.A., M.S.)
French Studies (M.A.)
Health/Fitness Management (M.S.)
History (M.A., Ph.D.)
History of Religions: Hindu Tradition (M.A.)
Human Resource Development (M.S.H.R.)
Human Resource Management (M.S.H.R.)
Interdisciplinary Studies (M.A., M.S.)
Interdisciplinary Studies: Environmental Toxicology (M.S.)
International Affairs (M.A.)
International Business (M.B.A., M.S.)
International Communication (M.A.)
International Development (M.A.)
International Legal Studies (LL.M.)
International Relations (Ph.D.)
Justice (M.S.)
Law (J.D.)
Linguistics (M.A.)
Literature (M.A.)
Marketing (M.B.A., M.S.)
Mathematics (M.A.)
Mathematics, Applied (M.A.)
Mathematics Education (Ph.D.)
Music (M.A.)
Operations Analysis and Information Systems (M.B.A., M.S.)
Painting (M.F.A.)
Performing Arts: Arts Management (M.A.)
Performing Arts: Dance (M.A.)
Personnel and Industrial Relations (M.B.A., M.S.)
Philosophy (M.A.)
Physics (M.S., Ph.D.)
Political Science (M.A., Ph.D.)
Printmaking (M.F.A.)
Procurement Management (M.B.A., M.S.)
Psychology (M.A., Ph.D.)
Psychology, General (M.A.)
Public Administration (M.P.A., Ph.D.)
Public Financial Management (M.P.F.M.)
Public Relations Management (M.S.)
Real Estate and Urban Development (M.B.A., M.S.)
Russian Studies (M.A.)
Science Teaching (M.S.S.T.)
Sculpture (M.F.A.)
Sociology (M.A., Ph.D.)
Spanish Studies (M.A.)
Special Education: Emotional Disturbance (M.Ed.)
Special Education: Learning Disabilities (M.Ed.)
Statistical Computing (M.S.)
Statistics (M.A., Ph.D.)
Student Development in Higher Education (M.Ed.)
Taxation (M.S.)
Technology of Management (M.S.T.M.)

AU Literature professor Henry Taylor, recipient of the 1986 Pulitzer Prize for poetry

Academic Calendar, 1987–1988

The official calendar for each academic term is published in detail in the *Schedule of Classes*. Faculty members and students should consult this source for final information about the academic year. The university reserves the right to change any published calendar.

Fall 1987

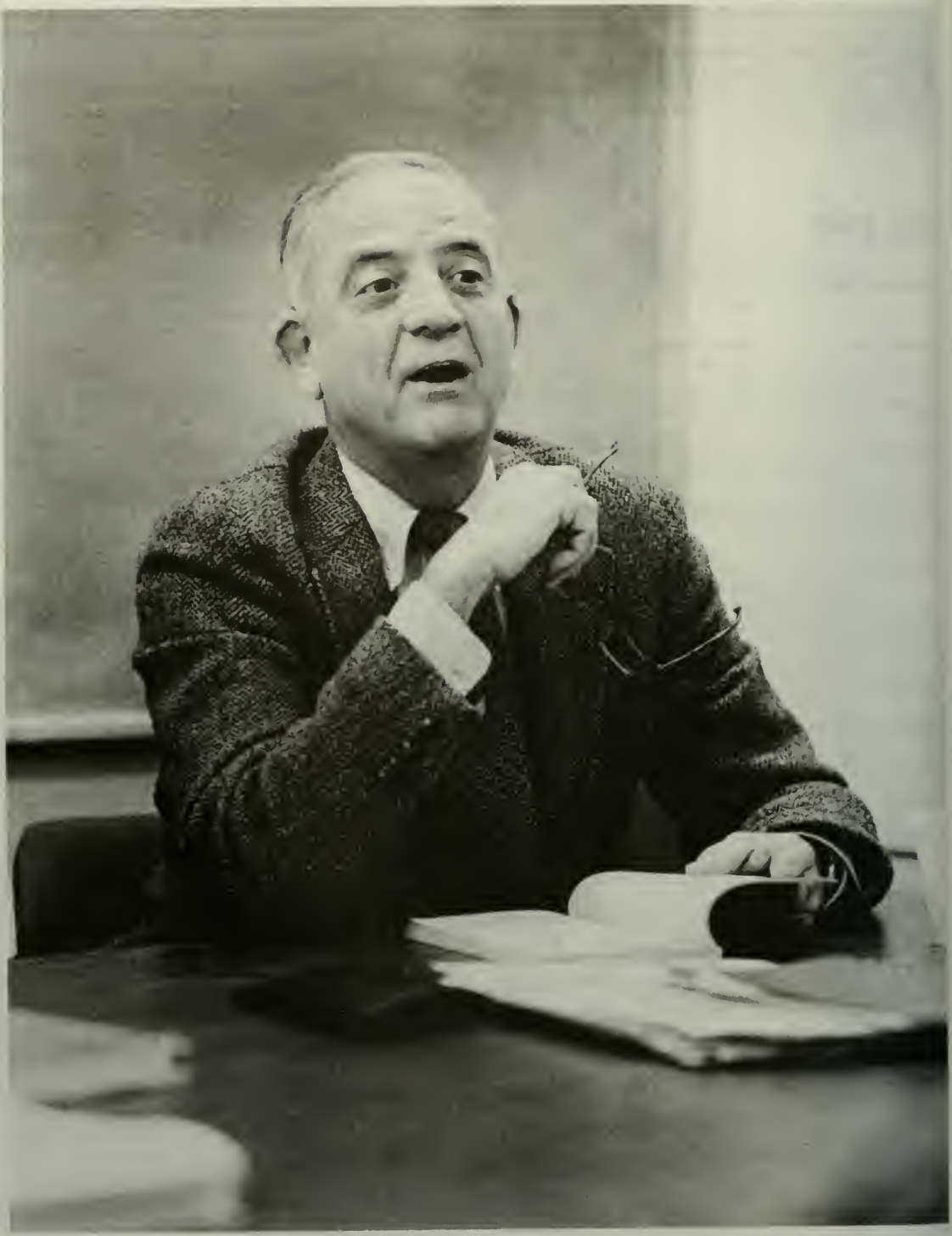
March 30–July 31	Advance registration (with billing) for Fall 1987.
August 3–28	Direct registration (with payment) for Fall 1987.
August 31	Fall 1987 semester begins.
September 7	Labor Day holiday. University offices closed.
November 2–25	Advance registration (with billing) for Spring 1988.
November 26–29	Thanksgiving holiday. No classes; university offices closed.
November 30	Direct registration (with payment) for Spring 1988 begins.
December 9	Classes end.
December 10–11	Study days.
December 12–18	Final examinations.

Spring 1988

January 15	Direct registration (with payment) for Spring 1988 ends.
January 18	Martin Luther King Jr.'s Birthday. University offices closed.
January 19	Spring 1988 semester begins.
January 31	Winter commencement.
March 12–20	Spring break.
May 2	Classes end.
May 3–4	Study days.
May 5–11	Final examinations.
May 14	Honors convocation.
May 15	Spring commencement.

Summer 1988

May 16	First three-, six-, and seven-week sessions begin. Ten-week session begins.
May 30	Memorial Day holiday. No classes; university offices closed.
June 3	First three-week session ends.
June 6	Second three-week session begins.
June 23	First six-week and second three-week sessions end.
June 30	First seven-week session ends.
July 4	Independence Day holiday. No classes; university offices closed.
July 5	Second six-and seven-week sessions begin.
July 22	Ten-week session ends.
August 11	Second six-week session ends.
August 18	All remaining sessions end.



Dr. Edward L. Kessler, Scholar/Teacher of the Year.

Undergraduate Study

Admission

Application for Admission

Application for admission to undergraduate degree programs may be made for any fall, spring, or summer term.

The applicant is required to submit the application form and a nonrefundable application fee of $25. Forms may be obtained by writing or telephoning the Office of Admissions.

Applications and all supporting documents must be on file in the Office of Admissions by the following dates:

Freshman

Fall
Early Decision—November 15
General Admission—February 1
Spring—December 1
Summer—April 15

Transfer

Fall
August 1 (February 1 to be considered for financial aid)
Spring—December 1
Summer—April 15

The applicant is responsible for requesting that official transcripts and test scores be sent directly from the issuing institutions to The American University, Office of Admissions.

Transfer applicants must request each collegiate institution previously attended to send directly to the Office of Admissions an official transcript of all work done. Attendance at all institutions must be reported *whether or not credit was earned* and whether or not transfer credit is desired. Failure to report all previous academic work will be considered sufficient cause for rejection of an application or for dismissal from the university.

High-school seniors usually apply in the fall of their senior year. The application deadline has been established to ensure that all applications received by that date will also be considered for financial aid and housing. Applications received after the deadline will be considered for the intended program of study as long as class space remains and if it is possible to receive and process the necessary documents in time for registration. Also, persons applying after February 1 should understand that financial aid and housing may not be available to them for the fall term.

Early Admission

The American University offers the opportunity for admission a year earlier than normal to freshman applicants whose ability, academic achievement, and general maturity indicate that they are ready to begin collegiate work. Such applicants must fulfill in general the requirements set out above.

The Office of Admissions will send information to secondary-school principals, counselors, or students who inquire about such admission. Applicants are considered on their own merit. However, major factors important to evaluation are

1. the secondary school record, with special reference to grades achieved and the pattern of courses taken;
2. performance on the College Entrance Examination Board Tests or the American College Tests;
3. the recommendations of the secondary school principal and counselor;
4. a letter from the applicant stating the reasons for seeking early admission;
5. possibly, an interview with a screening committee.

Early Decision

Freshman applicants whose first choice is The American University are encouraged to apply as early-decision candidates. Students admitted under the early-decision plan learn of their admission by December 15 and receive first consideration for housing and financial aid. The university, in turn, is insured that these students will enroll if admitted.

The deadline for applying early decision is November 15, at which time all documents, including the $25 application fee, must be on file with the Office of Admissions. Early-decision applicants may initiate applications to other schools before notification on December 15, but if they are admitted to

The American University as early-decision candidates, they must submit a tuition deposit and withdraw all applications to other colleges and universities.

Early-decision applicants are evaluated by the same criteria as all other freshman applicants. They may be admitted to the university in December, denied admission, or have their application deferred until the general-admission reply date of April 15. Students deferred until April are released from the commitment to attend if admitted.

Campus Visits and Interviews

Prospective students are invited to visit the university but are not required to do so. Students are asked to make an appointment with the Office of Admissions three weeks in advance if by mail, two weeks if by telephone.

Prospective freshmen participate in small-group conferences conducted by an admission counselor, who will review admission policy and procedure and answer questions about the university. Applicants should be prepared to complete a brief description of their academic qualifications, i.e., academic average, College Board scores, and rank in class.

Campus tours are usually available for visitors before or after the conference. However, during holiday periods when the university is not in session, it may not be possible to gain access to classroom buildings and dormitories, and tour guides may not be available. At those times the university offers visitors a tour pamphlet so that they may guide themselves.

Students attending another college or university who are interested in transferring to The American University may make appointments in advance for individual conferences with an admission counselor. A transfer student should either have an official transcript of previous work forwarded to the Office of Admissions before the visit or bring a personal copy for use in the conference.

The Office of Admissions is usually able to arrange classroom visits for prospective students when the request has been made well in advance. However, a visitor may attend classes with a friend enrolled at the university if permission of the professor has been granted in advance. Saturday class offerings are very limited.

The Office of Admissions will make every effort to arrange overnight accommodations for prospective students in university dormitories. Visitors requesting overnight housing are asked to telephone the admissions office two weeks in advance. The admissions office can also provide a list of motels and hotels convenient to the campus.

Notice of Admission

General and early admission applicants whose applications and supporting documents have been received by the Office of Admissions and Financial Aid by February 1 are notified of the decision on their applications by April 15.

Early-decision applicants are notified of the decision by December 15; at that time early-decision applicants may be admitted, denied admission, or deferred until the general admission date of April 15.

Transfer applicants are notified of decisions as they are made.

Full-time undergraduates entering in the fall semester are required to pay a nonrefundable tuition deposit to reserve a place in the class.

Complete detailed instructions for replying to the admission offer are furnished with the notice of acceptance.

Learning Disabled Program

The American University offers a comprehensive support program for learning-disabled students. Applicants to this program are evaluated according to their individual backgrounds and needs. Often the Office of Admissions will request additional information from learning-disabled applicants. For this reason, learning-disabled students are encouraged to submit their applications with all supporting documents as early as possible. Application materials should be mailed to: Special Admissions Committee for Learning Disabled Students, Office of Admissions, The American University, 4400 Massachusetts Avenue, N.W., Washington, DC 20016.

Further information about The American University's support program for learning-disabled students can be obtained from the Office of Admissions or the Center for Psychological and Learning Services.

Freshman Admission Requirements

A graduate of an approved secondary school who has completed fifteen academic units—including at least four units in English and three units in college preparatory mathematics, including the equivalent of two units in algebra—will be considered for freshman standing.

The following College Entrance Examination Board Tests should be taken as early as possible in the senior year; applicants should request that official score reports be sent directly to the Office of Admissions.

1. Scholastic Aptitude Test (required)
2. English Composition Achievement Test (recommended for placement)
3. Foreign Language Achievement Test: Applicants who plan to continue the study of a foreign language that was begun in secondary school may wish to submit scores on the appropriate test to be used in placing the student at the proper level of work. The test should be taken as early as January if possible, but no later than May for fall admission.
4. Mathematics Achievement Test (Level I or Level II): It is recommended that the test be taken by any freshman applicant whose intended major program of study will require the completion of course work in mathematics or statistics.

Additional achievement test scores may be submitted (no later than May for fall admission) at the discretion of the applicant.

The American College Test scores are an acceptable alternative if the student does not plan to take the Scholastic Aptitude Test.

The American University may require applicants, regardless of citizenship, to take an English language proficiency examination if they are most fluent in a language other than English. The Office of Admissions will notify applicants who need to take the Test of English as a Foreign Language (TOEFL) or the English Language Institute place-

ment test (offered on the campus of The American University).

Equivalency Diploma

Holders of equivalency diplomas issued by state departments of education are eligible for consideration as freshmen but are subject to an entrance examination (SCAT, SAT, or ACT) at the request of the Office of Admissions.

Veterans or current members of the armed forces who have taken the General Education Development Test (GED), the Comprehensive College Test, or the General Examinations of the College Level Examination Program should apply to their state departments of education for equivalency diplomas. Official certification of the diploma should be sent by the state department of education directly to the Office of Admissions.

Advanced Placement

Freshman applicants may earn advanced-standing credit which may be used toward degree requirements.

1. The College Entrance Examination Board's Advanced Placement Program: In some secondary schools, enriched courses are offered under this program. On the basis of scores achieved in the special examinations given, the applicant may be granted actual college credit or advanced placement in courses.

2. The College Level Examination Program (CLEP): Credit may be earned for superior performance in the following subject-matter examinations: American Government, American History I or II, American Literature, Analysis and Interpretation of Literature, Biology, Calculus with Elementary Functions, College Composition, College French levels one and two, College German levels one and two, College Spanish levels one and two, Computers and Data Processing, Educational Psychology, English Literature, General Chemistry, General Psychology, Human Growth and Development, Introduction to Management, Introductory Accounting, Introductory Marketing, Introductory Macroeconomics, Introductory Microeconomics, Introductory Sociology, Tests and Measurements, and Western Civilization I and II.

From time to time, additional subject-matter examinations are added to those listed above. For complete details on the CLEP at The American University, write the Office of Admissions.

Credit may be earned in a combination of the above programs, but duplicate credit will not be given.

School of International Service

In addition to standards and procedures pertaining to freshman admission at The American University, candidates for admission to the School of International Service must present evidence of outstanding personal and academic qualifications. Eligibility for freshman consideration normally requires a minimum 3.00 grade-point average in secondary school, computed on academic courses only. Other considerations are leadership qualities, character, and personal interest.

Transfer Admission Requirements

To be considered for transfer admission, applicants normally should have maintained at least a 2.00 grade-point average (on a 4.00 scale) or the equivalent at a college institution that is regionally accredited or a Recognized Candidate for Accreditation. Transfer applicants should be in good academic and social standing at the school previously attended.

Transfer applicants with fewer than twenty-four semester hours of credit completed at the time of application should also submit the secondary school record and College Board scores.

Applicants to the School of International Service should have maintained a minimum of 2.75 grade-point average (on a 4.00 scale).

Applicants to the School of Education should present a minimum of 2.70 grade-point average.

Transfer applicants who are also applying for financial aid should submit their admissions applications and supporting documents by February 1 for fall entrance. All financial aid documents should be on file with the Office of Financial Aid by March 1.

The American University may require transfer applicants, regardless of citizenship, to take an English language proficiency examination if they are most fluent in a language other than English. The applicant will be notified by the Office of Admissions if he or she needs to take the Test of English as a Foreign Language (TOEFL) or the English Language Institute placement test (offered on campus at The American University).

Transfer of Credit

The Office of Admissions evaluates official documents showing previous college-level work completed and is liberal in accepting credit earned in the past. Nonetheless, a student who has not been engaged in formal study for a number of years or whose study has been intermittent, at The American University or elsewhere, must understand that full credit will not necessarily be granted for past work simply because it is a matter of record.

Transfer students may normally expect to receive credit for courses taken at collegiate institutions that were, at the time the courses were taken, regionally accredited or Recognized Candidates for Accreditation. These courses must have been completed with grades of A, B, C, or the equivalent of P on a pass-fail system where P is specifically designated as indicating a quality of work no lower than C (not C−) on a conventional grading scale, and must be appropriate for academic credit at The American University.

A maximum of ninety semester hours of credit, or the equivalent, will be accepted on transfer from four-year collegiate institutions. A maximum of seventy-five semester hours credit will be accepted from a two-year collegiate institution.

A maximum of thirty semester hours, or the equivalent, may be accepted on transfer for a combination of relevant work completed satisfactorily in Armed Services School courses or any Military Occupational Skills (MOS) completed with a grade of 70 or better, both as recommended for baccalaureate credit by the American Council on Education or for associate or baccalaureate credit as recommended by the Defense Activity for Non-Traditional Educational Support (formerly United States Armed Forces Institute).

An additional thirty semester hours may be granted for a combination of relevant work completed in (a) college-level

nondegree, extension, or correspondence courses offered through an accredited collegiate institution that accepts the credit for its own degree or (b) for courses satisfactorily completed in noncollegiate (but not Armed Forces) organizations that are recommended at the baccalaureate level by the American Council on Education.

Up to thirty semester hours of advanced-standing credit in the area of undergraduate electives may be awarded to students who, at the time of admission to an undergraduate degree program, present evidence that they have been licensed to practice as attorneys, dental surgeons, certified public accountants, medical doctors, or accredited members of other licensed professions, by special permission of the Committee on Undergraduate Admissions, Scholarships, and Financial Aid.

Transfer students may be awarded credit for satisfactory scores in subject-matter tests of the College Level Examination Program. (See details and information on advanced placement under "Freshman Admission Requirements" above.) In addition, transfer students whose prior records reflect assignment of credit toward a degree for general examinations of the CLEP will be granted appropriate credit.

Grades and quality points earned in courses accepted for transfer will not be included in the grade-point average to be maintained at The American University, but the credits will count toward the total number required for graduation.

Admission from Nondegree Status

Students wishing to transfer from nondegree status at The American University to undergraduate degree status must submit a formal application for admission to an undergraduate program through the Office of Admissions. If a student is accepted into an undergraduate degree program, a maximum of thirty semester hours of credit may be transferred from nondegree status to the degree program. If the student is denied admission to an undergraduate program, the student may not register at The American University for further courses.

Admission for Part-time Study

A student enrolled in fewer than twelve semester hours is considered a part-time student.

Applicants considering part-time study in a degree program are cautioned that they may be unable to complete the necessary course work for degrees by attending evening classes only. Before applying they should consult with the department chair in disciplines of their proposed majors to ascertain whether the required courses will be available to them.

Part-time degree applicants are required to meet the same standards for admission as full-time applicants, and should follow the instructions under either "Freshman Admission Requirements" or "Transfer Admission Requirements" above, whichever is appropriate, with the following exceptions pertaining to College Board Tests:

1. Freshman applicants who have taken College Board Tests within the past five years are required to communicate with the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540; or Box 1025, Berkeley, California 94701, to request that official scores be sent directly to The American University Office of Admissions.
2. If the applicant completed secondary school within the past two years and did not take College Board Tests, the applicant must arrange to do so. Information on how to apply may be obtained from the College Entrance Examination Board.
3. If the applicant completed secondary school more than two years ago and did not take College Board Tests, the applicant may be asked to take an alternative examination at the direction of the Office of Admissions.
4. The American College Tests are accepted in lieu of the College Board Tests.

Readmission

An undergraduate student whose studies at the university are interrupted for any reason for a period of one semester (excluding the summer sessions) other than an approved leave of absence must submit a formal application for readmission to the Office of Admissions at least two months before the beginning of the semester or summer session for which the student wishes to be readmitted, unless written permission to study at another collegiate institution was secured in advance or the student has been granted an official leave of absence. (See "University Degree Requirements" below.)

Students who were in good standing when they left the university and who have maintained a satisfactory grade-point average at another school are virtually assured readmission. It is to a student's advantage to apply for readmission as early as possible so that he or she may advance register.

A student who is readmitted is subject to the academic requirements and regulations in effect at the time of readmission. Students applying for undergraduate readmission must pay a fee of $25.

Degrees

Associate Degree

The Associate in Arts degree requires the completion of at least sixty semester hours. At least fifteen of the last thirty semester hours applied to the degree must be taken in residence at The American University. A maximum of forty-five semester hours may be transferred to the degree.

Students must complete at least twelve semester hours of distributive credit. Students must also fulfill the university English requirement and the English and mathematics competency requirements.

For detailed information on requirements, see "University Degree Requirements" below.

Bachelor's Degrees

The university offers seven bachelor's degrees: Bachelor of Arts, Bachelor of Fine Arts, Bachelor of General Studies, Bachelor of Music, Bachelor of Science, Bachelor of Science

in Business Administration, and Bachelor of Science in Technology of Management.

All bachelor's degrees require completion of at least 120 semester hours of course work. At least thirty semester hours out of the last sixty must be completed in residence at The American University.

Within the total 120 semester hours students must fulfill a six-hour English requirement, a twenty-four-hour distributive requirement, English and mathematics competency requirements, and requirements for a major.

For detailed information on requirements, see "University Degree Requirements" below.

Two Undergraduate Degrees

Two undergraduate degrees may be conferred if a student satisfies both major and major-related requirements within two departments or schools and accrues at least 150 semester hours.

In order to be eligible for the second bachelor's degree, the student must apply for admission to the second degree program, preferably by the end of the junior year. If the student is granted admission to the second program, then upon completion of all requirements for the first program and the award of the first degree, the student's status will be changed to the second program. The student must again apply for graduation to be granted the second degree.

Bachelor's/Master's Degrees

Some departments offer programs which allow students to earn both a bachelor's and a master's degree in a planned program of study during the third and fourth undergraduate years and first graduate year.

Students are admitted to each level according to requirements established by the teaching unit.

Six graduate semester hours may be applied to the requirements for both degrees. For graduate programs requiring more than thirty-six semester hours, the number of hours applicable to both degrees may be increased.

Fields of Study

Major Requirements

Each undergraduate must complete at least thirty-six semester hours in the degree major and related courses, no fewer than fifteen of which must be earned in upper-level courses taken in residence at The American University.

A grade of C (2.00) or better is required for each course in the major. Students should note that a C− does not qualify and any course with a C− or lower will have to be repeated or an equivalent course taken to satisfy the major requirement involved. Courses in the major may not be taken on a pass-fail basis without the special permission of the student's dean or department chair.

Declaration of Major

By the end of the sophomore year, if not before, each student must choose and declare an academic major. Formal declaration of the major is required on a form available from the dean's, departmental, or registrar's office.

Admission to the university in an undergraduate program does not automatically constitute admission to a major program (except in the School of Nursing). Acceptance is official only when specific approval has been granted by the department or program chair or designee and recorded by the Office of the Registrar.

Double Majors

A student can complete a double major by satisfactorily passing the major and major-related course work required by two departments or schools.

If the double major is pursued in two schools, the student must designate when declaring the two majors which school he or she will be registered in and graduated from. The student will need to satisfy the general requirements of that school only. If a student is majoring in two recognized majors that lead to different degrees (e.g., B.A. and B.S.), the student specifies which of the two degrees is to be awarded.

A student may apply the same course to both major programs if it fits into both sets of requirements.

Interdisciplinary Majors

Students for whom none of the established majors is suited may construct their own major programs leading to B.A. or B.S. degrees.

To design and complete an interdisciplinary major a student must have the advice and approval of three faculty members: one major adviser (who must be a full-time faculty member) and two sponsors. The three faculty members should represent the various disciplines involved in the interdisciplinary field. The major faculty adviser will advise the student actively for the rest of the student's undergraduate career. The two sponsors will assist the major faculty adviser in areas outside the adviser's field.

Interdisciplinary major programs must include at least forty-two semester hours including six semester hours in independent study or senior seminars and thirty-six semester hours selected to form an academically sound, unified, and well-defined program. At least 75% of the thirty-six semester hours must be upper level as defined by the teaching units that offer them. Students are encouraged to include at least two 500-level courses, although in some areas this may not be possible. A maximum of eighteen semester hours of work completed prior to the semester in which application is made may be included in the program.

The two independent study courses or senior seminars (six semester hours) must be supervised by the major adviser and must be focused on the program's central concept.

For permission to undertake an interdisciplinary major, the student applies to the dean of the school or college in which she or he is enrolled.

For more information see "Interdisciplinary Studies" in this publication.

Changes in Field of Study

A student who wishes to change from one college or school to another, or from one major to another, must receive the permission of the dean or department chair in charge of the program to which the student wishes to trans-

fer. This is done on forms available from the dean's or departmental offices and filed in the Office of the Registrar. A change in college, school, or major affiliation, when approved, does not become effective until the beginning of the next semester. It does not become effective if the student is suspended or dismissed. A student who changes field of study may lose credit already earned in other study that is not appropriate to the new program.

Minors

Minor programs may be established by teaching units in any area for which there is an analagous major. All minor programs consist of eighteen to twenty-four semester hours, including at least twelve semester hours at the 300 level or above. Not more than six semester hours may be used to satisfy simultaneously the requirements of both a major and a minor. For all minors offered by the College of Arts and Sciences, at least nine semester hours of the stated requirements must be taken in residence at The American University.

A grade of C (2.00) or better is required for each course used to satisfy the requirements of a minor.

Graduation clearance for minors follows procedures analagous to those for majors. Formal declaration of minor is made at the time of the student's application for graduation clearance. Minors will be posted on the student's permanent record at the time of graduation but will not appear on the student's diploma.

Specific course requirements for individual minors are listed along with the descriptions of the analogous majors in this publication.

Interdisciplinary Minors

Students may also earn an interdisciplinary minor by completing an individually constructed program satisfying the requirements stated above and consisting of courses from different disciplines united by a common theme and modeled after interdisciplinary majors. Students should consult their deans' offices for additional information.

University Degree Requirements

It is university policy that no student shall be involuntarily subject to regulations and academic requirements introduced during the student's continuous enrollment in good standing in a single degree program if the new regulations involve undue hardships or the loss of academic credits earned to satisfy the requirements previously in effect.

Undergraduate students are governed by the following minimum requirements for the undergraduate degree (each teaching unit may have further major and major-related requirements). Undergraduate students are advised to consult their own adviser, department chair, or dean for detailed information.

Semester Hours

A total of 120 semester hours is required for the bachelor's degree. Individual bachelor's degree programs may require the completion of more than 120 semester hours. See the descriptions of individual degree programs in this publication.

A total of sixty semester hours is required for the associate degree.

Residence

Each bachelor's degree student must successfully complete thirty of the last sixty semester hours required for the degree in residence at The American University.

Associate degree students must complete fifteen of the last thirty semester hours in residence.

Credit earned in any American University course, on or off campus, is residence credit. Credit earned by an American University student through the Consortium of Universities is also residence credit.

Grade-Point Average

Students enrolled in an undergraduate degree program must maintain a grade-point average of at least 2.00 in order to remain in good standing and to graduate.

English

Each undergraduate must complete six semester hours of English with a grade of C or better. Courses designed to fulfill this requirement are 23.100 and 23.101 (or 23.102 and 23.103), College Writing and College Writing Seminar, respectively; 23.130 and 23.131, Honors English I and II (placement by invitation of the Honors Board); 71.101 and 71.102, Communications I and II (for Community Studies students); and 74.200 and 74.201, College Reading and Writing I and II (for nonnative speakers of English). Any two of these courses (six semester hours) will satisfy the university English course requirement. On the basis of tests and records, the university may waive all or part of the English course requirement. (See also "English and Mathematics Competency Requirements" below.)

English and Mathematics Competency

Undergraduate students, as a condition of graduation, are required to demonstrate basic proficiency in reading and writing skills and in arithmetic and elementary algebraic skills by passing competency tests in those areas or by satisfactory performance in specifically designated courses.

The competency requirements apply to all undergraduate students admitted to degree programs in the fall 1979 semester and thereafter. This includes freshmen, transfers, and students who are readmitted to the university.

English

Students who pass the first course required for the English course requirement (see above) in fall 1983 or later with a grade of C or better will thereby also satisfy the reading and writing skills competency requirement.

Students who fulfilled the university's two-part English course requirement before fall 1983, or who have trans-

ferred to the university—with the CLEP test or course work—the equivalent of both halves of the English course requirement have *not* satisfied the English competency requirement. These students may fulfill the competency requirement in either of two ways: They may sit for the competency tests, or they may complete 23.180 Writing Workshop (74.280 College Writing Skills Workshop for nonnative speakers of English) with a grade of C or better. In either case they should plan to fulfill the competency requirement as soon as possible and well before the final semester of study.

Students who do not pass the test after two attempts must fulfill the competency requirement by obtaining a C or better in 23.100 College Writing, 23.102 College Writing (intensive), 23.130 Honors English I (by invitation), 23.180 Writing Workshop, or, for nonnative speakers of English, 74.200 College Reading and Writing I or 74.280 College Writing Skills Workshop.

Mathematics

All undergraduate students are required to demonstrate competency in mathematics either by passing a mathematics competency examination, which is administered at least twice a year, or by passing a mathematics course at the level of 41.122 Basic Algebra or higher. No grade lower than C (or P), no nontechnical course such as history of mathematics, and no course taken at another institution will be accepted as fulfilling this requirement. Students are advised to sit for the competency test in their first semester of study. Students who fail in two attempts at the examination must satisfy the requirement through course work.

General Education Program

The American University's General Education Program, in which all undergraduates participate, is designed to improve students' skills in communication, to provide students with knowledge in the traditional areas of human thought, and to foster students' understanding of the interdependency of the contemporary world and the profound effect of global issues on American life.

The General Education Program requirements for the bachelor's degree consist of six semester hours of English (see above) and twenty-four semester hours selected from specially designated courses in the three fields of the undergraduate curriculum: arts and humanities (A), natural and mathematical sciences (N), and social sciences (S). The arts and humanities concern creative human expression and individual and collective human values in the past and present. The natural and mathematical sciences study the physical world as well as those patterns of human reasoning that deal with quantities, symbols, and collections of information. The social sciences provide systematic analysis of patterns of human thought and behavior with a view toward assessing present and future human problems.

The program is based on the idea that men and women should develop appreciation for the forms of creative human expression. In a world where a person may have three or four different careers in a lifetime, universities cannot afford to turn out narrowly educated specialists. Each student must develop the ability and knowledge to become an active and capable participant in a changing world.

Distributive Requirements

Each student in a bachelor's degree program must complete at least twenty-four semester hours in the fields of arts and humanities (A), natural and mathematical sciences (N), and social sciences (S), with at least six semester hours in each of the three fields. No more than six of the required twenty-four semester hours may be courses in the teaching unit of the student's major.

Associate degree students must complete at least twelve semester hours with at least three in each of the three fields. No more than three of the required twelve semester hours may be in the teaching unit of the student's concentration.

Courses that may be used to fulfill the distributive requirements are designated in the *Schedule of Classes* and this publication by a letter notation (A, S, or N) following the course title. Some courses have two of the three distributive designations (e.g., A and S); students may count the course towards either distributive requirement but not both. University courses in the General Education Complement (see the following section) may also be used to fulfill distributive requirements.

Students may use advanced-standing credit, transfer credit, or credit earned through the College Level Examination Program (CLEP) or Advanced Placement tests, if such credit is comparable to designated courses at The American University. Credit earned at another university may be used to fulfill a distributive requirement, provided approval from the student's dean is obtained in advance for a specific course or courses.

General Education Complement Courses

Students may fulfill distributive requirements by selecting from a set of university courses offered by the General Education Program. The General Education Complement comprises a core of approximately thirty courses which are of special value to general education at The American University because of their excellence, breadth, centrality to a discipline or curriculum field, cross-disciplinary or comparative orientation, or their emphasis on the theme "America in an Interdependent World."

General Education Complement courses are taught by outstanding teachers and scholars, and some offer learning experiences unique to Washington. All courses in this set carry A, N, or S designations and fulfill distributive requirements. These courses are listed in each semester's *Schedule of Classes* under "General Education Complement."

Courses offered last year include: Great Ideas That Changed History; Japan and America; Russia and America: A Comparison; The United States in the Western Hemisphere; Computers and Information: Toward the Year 2000; Introduction to Drugs and Toxicology; Nuclear War; Experiencing Art with an Artist; The World Ocean; Antarctica.

Academic Standards and Regulations

Academic Load

An undergraduate student admitted to and enrolled in a degree program usually registers for fifteen semester hours each semester so that the required minimum of 120 semester hours for the bachelor's degree is completed in four years.

In any given semester, a student may carry a minimum of twelve semester hours and be classified and certified (for vet-

eran's benefits, financial aid, etc.) as full time for that semester. The additional semester hours must be made up through summer enrollment or by an overload (if approved by the dean) in another semester in order to maintain normal annual progress toward the degree, as is often required by the regulations of government agencies. Students are urged to become familiar with such regulations. A total of seventeen semester hours is the maximum load permitted without special approval.

An undergraduate student wishing to register for more than seventeen semester hours in a semester is required to have the approval of the academic adviser and the appropriate dean. The approval is for the overload, not permission for a specific course.

Generally, such approval will be granted when the student ranks in the upper twenty-five percent of the undergraduate student body. Ranking is based on the cumulative grade-point average in work taken at The American University. It is also understood that the student should have no incomplete grades.

A per-semester-hour tuition fee is assessed, in addition to the full-time tuition fee, for registered semester hours in excess of seventeen.

Class Standing

Undergraduate class standing is defined as follows:

Number of Semester Hours Completed	Standing
0–29	Freshman
30–59	Sophomore
60–89	Junior
90–120	Senior

Students enrolled in a degree program requiring the completion of more than 120 semester hours will be considered seniors from the time they have completed 90 semester hours until they have completed all of their degree requirements.

Evaluation of Progress

An evaluation of each undergraduate student's progress is made by the office of the student's dean after each semester. In addition to the cumulative grade-point average, this evaluation considers completion of university requirements and the ratio of courses satisfactorily completed to all courses attempted by the student. Students who are not making satisfactory progress are informed in writing of the result of their evaluation and offered academic advisement.

The university has no strict regulations governing the total amount of time an undergraduate student may take to fulfill the requirements for a degree, provided the student maintains the appropriate grade-point average and gives evidence of being seriously interested in the eventual achievement of his or her academic objective.

Academic Probation and Dismissal

An undergraduate student who fails to maintain the required 2.00 cumulative grade-point average but whose average is 1.75 or higher may be granted probationary status for one year. Academic probation is an action usually taken only in the first two years of full-time study or the equivalent in part-time study. Dismissal may be anticipated by any student whose cumulative grade-point average in the third or fourth year of full-time study (or the equivalent in part-time study) falls below 2.00, or whose average in any semester falls to 1.00 or below. Actions involving academic probation and dismissal are entered on the student's permanent record and may not be removed.

A student on probation may be subject to restrictions as to the course load he or she may register for. Such a student is ineligible to hold office in student organizations or to participate in intercollegiate activities. The student may be given permission to participate in intercollegiate athletics at the end of a semester in which the student's cumulative grade-point average has been raised to 2.00, even though the student's probation may extend for an additional semester.

It should be noted that the grade-point average is only one measure of academic performance. Maintenance of the required average does not necessarily imply that a student is making satisfactory progress, and the university reserves the right to dismiss a student whose performance is judged unsatisfactory even though the student has maintained the required grade-point average.

A student who is dismissed may not be readmitted to the university or enroll as a nondegree student for a full year after the effective date of the dismissal.

Freshman Forgiveness

A freshman who, during the first two semesters of full-time study, receives a grade of F or X in a course may repeat the course at The American University within the calendar year thereafter or in the next two regular semesters in which the student is enrolled. If the course is not offered within that time, the student may use the option the next time it is. No grade is removed from the student's record, but only the grade earned the second time the course is taken is used in calculating the grade-point average for purposes of making decisions concerning probation, dismissal, and required average for graduation.

A part-time undergraduate or nondegree student who, during the first thirty semester hours of study, receives a grade of F in a course may repeat the course at The American University within one calendar year after the semester in which the grade of F was received, with the resulting cumulative index benefits stated above.

The freshman forgiveness rule does not apply to transfer students even though they may have entered the university with freshman status.

Pass-Fail

Students may take up to 50% of their courses on a pass-fail basis. If a student's major department approves, this percentage may be greater. Courses in the student's major must be taken for a letter grade unless special permission is given by the dean or department chair. The grade of P (pass) is not used in calculating the grade-point average. See "General Academic Regulations and Information" in this publication.

Graduate Credit

Senior students, with the written permission of their department chairs or deans, may enroll in specifically approved graduate courses not required for their undergraduate pro-

grams. Such courses must be designated in writing as graduate-degree credit at the time the student registers for them. A copy of this written agreement must be filed in the Office of the Registrar. Retroactive application of these credits for such purposes is not permitted. Credit for these courses may be applied toward meeting the course requirements for a graduate degree after the student has been awarded an undergraduate degree if the student is then admitted to a graduate degree program.

No course may be counted as credit toward both an undergraduate and a graduate degree, except as part of a formally prescribed combined undergraduate-graduate degree program.

Study at Another Institution

Study at another institution is usually undertaken during the summer or as part of an overseas program.

An enrolled student who plans to take courses at another college or university for transfer credit to The American University must be in good academic standing and must receive prior approval from the student's teaching-unit chair and college dean using the Permit to Study Abroad form or the Permit to Study at Another U.S. Institution form. For study abroad approval is also required from the director of study abroad. If the course to be taken is outside the area of the student's major, the chair of the teaching unit which would offer credit for such a course must also approve the permit. Approval is granted for specific courses. See also "Study Abroad" below.

The visited institution, if in the United States, must be regionally accredited. Students who have earned sixty or more credits toward their degrees (junior standing) at the time they undertake work at another U.S. institution may have credit transferred only from institutions accredited for granting bachelor's or higher degrees.

With departmental approval, transfer credit is applicable toward the requirements of a major. With the approval of the student's dean, transfer credit may be used to fulfill a distributive requirement.

Transferred courses must be completed with a grade of C or better for undergraduate degree credit. Grades for transferred courses are not, however, recorded on The American University's permanent record or computed in the student's grade-point average. The student must ask the other institution to send a transcript of work completed to the American University Office of the Registrar in order to receive credit.

Leave of Absence

Undergraduate students desiring a leave of absence for reasons other than study at another collegiate institution should request an appointment with their dean. If it seems desirable to guarantee the student an automatic readmission, the dean will issue a permit for leave of absence. This permit will specify a limitation, one year at most, of automatic readmission to the same undergraduate program.

The permit becomes void if the student attends any domestic or foreign collegiate institution during the period of leave. In such instances, the student must obtain from his or her dean a permit to study at another institution before leaving The American University.

Resuming Study

Students who cease to attend the university for an entire semester, whether voluntarily or not, are subject to all regulations and must meet all requirements in force when studies are resumed unless other arrangements have been agreed to in writing by the student's dean before the beginning of such an absence.

Students who change degree objective, college, or school, or who choose to conform to new regulations or requirements, must be prepared to complete all requirements and abide by all regulations in effect at the time such a change is made.

Special Opportunities

Dean's List

Each college or school may issue a dean's list of its undergraduate honor students at the end of each semester. The minimum standard for listing is a 3.50 grade-point average for the semester, earned in a full-time undergraduate program of not fewer than fifteen completed semester hours of which at least twelve hours must be completed for A–F grade credit.

Graduation Honors

Undergraduate students are eligible to be graduated with honors provided they have successfully completed at least sixty semester hours required for their degree in residence at The American University and have achieved the requisite grade-point average.

No more than fifteen semester hours taken pass-fail may be included in American University work applied toward honors. Such courses will not be computed in the grade-point average.

Undergraduate honors and the grade-point averages required are as follows: *Summa cum laude*—3.90 or higher; *Magna cum laude*—3.75 through 3.89; *Cum laude*—3.50 through 3.74.

Graduation honors are listed in the commencement program and on the student's diploma and permanent record.

Departmental Honors

Departmental honors programs may be instituted at the option of the colleges and schools. Departmental honors are listed on the student's permanent record and in the commencement program.

In the College of Arts and Sciences, students selected for departmental honors programs in their major subjects enroll during their junior and senior years in up to four special projects and on successfully completing them are recommended for departmental honors.

In the School of Government and Public Administration incoming freshmen are invited to participate in the school's honors program. Throughout their four years, students take

honors courses and are expected to complete an honors thesis during the senior year. Qualified upperclass students enter the honors program with permission of the school's undergraduate adviser.

Students in the School of International Service are admitted to the honors program in their junior or senior year. They must complete four courses in the School of International Service at the 500 level and complete a six-hour senior honors thesis on an independent study basis. A cumulative grade-point average of 3.50 at graduation is required to receive school honors. Permission of the school's undergraduate adviser is required.

The honors program in the School of Justice is a two-semester advanced studies program for selected seniors. For a description of the program see "School of Justice" in this publication.

University Honors

The University Honors Program offers seminar classes and special activities to selected students. For detailed information see "University Honors Program" in this publication.

Study Abroad

Students with certain educational objectives may include in their undergraduate program study at an institution abroad.

Students may participate in a study-abroad program, which is defined as any program at a foreign institution which is a formal part of a regionally accredited U.S. college or university, and is recorded on the transcript of that institution. For determination of regional accreditation, the publication *Credit Given* is the accepted reference.

After consultation with and approval of the student's dean, application is made directly to the institution for admission to its foreign study program. Transfer credit will be granted on the basis of the transcript from the sponsoring U.S. college or university.

Students may also attend institutions abroad not affiliated with an American college or university. Requests for transfer credit must be made on a Permit to Study Abroad form and must be approved before the student registers at the foreign institution. The institution to be visited must be approved by the student's dean and the dean of Study Abroad Programs. The dean of Study Abroad Programs will give final approval of the institution to be attended, will evaluate the official transcript when the student returns for the value in semester hours of the work completed, and will forward the transcript and evaluation to the Office of the Registrar for transfer of approved credit.

The student's academic adviser and dean will approve the academic areas or specific courses of study. Students must be warned that they might not receive credit for remedial language study if they are found deficient in the language of the country they visit. (See also "Study at Another Institution" above.)

Study Abroad students intern at the British Parliament

Graduate Study

Admission

Application for Admission

The standard deadlines by which applications for graduate study and all supporting documents must be on file in the Office of Admissions are as follows:

Fall—August 1
Spring—December 1
Summer—April 15

Applicants should check the following chart for possible earlier deadlines established by the teaching unit of the intended major.

Graduate applicants must request each collegiate institution previously attended (undergraduate and graduate) to send directly to the Office of Admissions an official transcript of all work done. *Attendance at all institutions must be reported whether or not credit was earned.* Failure to report all previous academic work (undergraduate and graduate) will be considered sufficient cause for rejection of an application or for dismissal from the university.

Graduate applicants are also responsible for ensuring that any required test scores be sent directly from the testing service to the Office of Admissions.

Since graduate programs are highly individualized, applicants are encouraged to schedule an appointment with the academic adviser in the teaching unit to which they intend to apply.

The applicant is required to submit the application form and a nonrefundable application fee of $25. Forms may be obtained by writing or telephoning the Office of Admissions, (202) 885–6000.

Notice of Admission

The Office of Admissions will send the completed application and supporting documents to the appropriate academic unit for review. Usually departments will make a decision within four to six weeks. However, some departments' procedures take longer. Students should consult the department to which they are applying if they have questions about admission decisions.

Students who have applied for admission to a degree program must clear their admission status before registering for courses. Students who have not received notification of status should inquire directly of the Office of Admissions before attempting registration. A provisionally admitted student will be designated as such at the time of admission.

Candidates for graduate degrees will be subject to the academic regulations in force at the time of their admission.

Admission Requirements

The minimum university requirements for consideration for admission to graduate study are set out below. Please refer also to the table following these requirements and to the appropriate college, school, and department sections of this publication for any additional requirements of the various units.

1. A bachelor's degree earned at an accredited college or university.
2. A 3.00 cumulative grade-point average on a 4.00 scale, in an undergraduate program, calculated on the last sixty semester hours of course work completed and presented at the time of application for admission.
3. Maintenance of a cumulative grade-point average of at least 3.00 on a 4.00 scale in all relevant graduate work for which a grade has been awarded.
4. An applicant for graduate study may be admitted without reference to the undergraduate average provided the applicant has maintained on a 4.00 scale either a 3.30 cumulative grade-point average in a master's degree program completed at an accredited institution, or a 3.50 cumulative grade-point average in the last twelve semester hours of a master's or doctoral degree program still in progress at such an institution at the time the application is evaluated, or in graduate work taken in nondegree status at The American University and applicable to the degree program being applied for.
5. An applicant for graduate study may be admitted without a bachelor's degree earned at an accredited college or university or without reference to the undergraduate average provided that he or she is a midcareer person from government or the private sector who has not at-

tended school full-time for at least eight years and is applying for admission to a professional master's degree program. This exception must be justified by an evaluation of the applicant's work performance and his or her organization's recommendation.

Provisional Standing

Each college, school, or department of the university may admit to provisional standing a limited number of students who do not meet the minimum standards of either the university or the teaching unit. By the end of one full semester of full-time study or after the first twelve semester hours of part-time study, the student will be evaluated by the college, school, or department. Continuation in the graduate program will be permitted on favorable appraisal of the student's performance.

The provisional admission status of a graduate student who does not give satisfactory evidence of capability will be withdrawn. This constitutes dismissal of the student.

Transfer Credit

The university is liberal in accepting credit earned in the past. Nonetheless, a student who has not been engaged in formal study for a number of years or whose study has been intermittent, at The American University or elsewhere, must understand that full credit will not necessarily be granted for past work simply because it is a matter of record.

The evaluation of graduate work completed elsewhere by an entering graduate student, in terms of its applicability to the program at The American University, will be made by the office of the dean or department chair concerned no later than the completion of twelve semester hours of course work.

Up to six semester hours earned at another institution may be applied to a master's degree (except for the sixty-hour M.B.A. program, into which up to twelve semester hours may be transferred). Up to thirty-six semester hours earned at another institution may be applied to a doctorate.

For transfer credit, individual courses (that is, courses not part of a completed master's program) must have been completed with grades of B or better and must have been completed within seven years of the beginning of the semester for which the student is admitted to degree status at The American University.

In no case may graduate credit be given for course work designated as undergraduate by the offering institution.

In all cases students are required to meet the residency requirements established by the university and any further residency requirements which may be stipulated for each program by the individual departments. The student should refer to the section on "Semester Hour and Residence Requirements" and consult the individual department for further details.

Admission from Nondegree Status

Students who have not been denied admission to a degree program within the preceding year may enroll in nondegree status at The American University (see "Nondegree Study" in this publication). A student registered in nondegree status who later establishes eligibility for admission to graduate degree status may apply a total of not more than twelve semester hours of graduate work completed while in nondegree status toward meeting the requirements for a graduate degree, provided the courses were completed within seven years of the beginning of the semester for which the student is admitted to degree status. To be considered for admission to degree status at the graduate level, a nondegree student must have maintained a grade-point average of at least 3.00 (B) in all graduate-level work.

There is no guarantee that a nondegree student will be accepted into a degree program.

Students admitted to degree status ordinarily may not thereafter register as nondegree students until they have successfully completed their degree requirements.

Readmission

After expiration of the time limit for completion of a graduate degree program, readmission may be granted once for a period of three years (less any time given in previous extensions of candidacy), subject to the requirements of the particular degree in effect at the time of readmission, and may involve taking additional courses or other work or both. When a student is readmitted under these circumstances, the length of time that the student will be given to complete degree requirements and any additional courses, examinations, or other requirements which are deemed necessary by the teaching unit will be specified. Students applying for graduate readmission must pay a fee of $25.

Graduate Admission Requirements

Teaching Unit	*Degrees Offered*	*Applications Accepted for*	*Application Deadline*	*Requirements in Addition to University Requirements (Note: For degree, grade-point average, and test-score requirements, consult the individual program descriptions in this publication.)*
College of Arts and Sciences				
Anthropology	M.A., Ph.D.	All terms, preferably fall.	Standard,* but advised to apply by March 15 for summer and fall.	Two academic letters of reference; an example of student's work, e.g., term paper; additional information available from dept.; send GRE scores if available.
Art	M.A., M.F.A.	All terms.	Standard.*	Two letters of recommendation if first degree not earned in dept. Art History: Must have at least 24 undergraduate hours in art history. Fine Arts: Portfolio must be submitted to dept.
Biology	M.A., M.S.	All terms.	Standard.*	Two letters of recommendation; GRE General and Subject.
Chemistry	M.S., Ph.D.	All terms.	Standard.*	Two letters of recommendation.
Communication, School of	M.A.	Fall for Journalism and Public Affairs	For Journalism and Public Affairs: March 1. For Film and Video: Standard,* except for graduate assistantships: March 15 for fall.	School of Communication application form and 1,000-word personal statement sent directly to Graduate Journalism Admissions Committee, School of Communication, in addition to university application; or 1,000-word statement of purpose sent to Graduate Film and Video Program Director, School of Communication, in addition to university application. Two letters of recommendation. International students must submit TOEFL scores. Consult School of Communication for details.
Economics	M.A., Ph.D.	All terms.	Standard,* but Ph.D. advised to apply before February 1 for fall, October 1 for spring.	GRE General recommended for M.A., required for Ph.D.; GRE subject recommended for Ph.D.; two letters of recommendation.
Education, School of	M.A., M.Ed., Ed.D., Ph.D.	All terms; M.Ed. in Emotional Disturbance usually summer only.	Standard,* but applicants advised to apply by March 1. Emotional Disturbance M.Ed. admissions for summer: March 1.	Two academic letters of reference with university application; GRE General or Miller Analogies Test. International students submit TOEFL scores. Extensive personal statement required.
History	M.A., Ph.D.	All terms.	Standard.*	Two letters of recommendation from recent professors; GRE General; no direct admission to Ph.D. from B.A. level; Ph.D. applicants should have a substantial beginning in a tool of research. Ph.D. applicants must submit directly to the department a substantial sample of recent written work.

*The standard deadlines for application are: Fall—August 1; Spring—December 1; Summer—April 15. The deadlines for international applicants not in the U.S. are: Fall—June 1; Spring—October 15; Summer—March 15.

Graduate Admission Requirements (Continued)

Teaching Unit	*Degrees Offered*	*Applications Accepted for*	*Application Deadline*	*Requirements in Addition to University Requirements (Note: For degree, grade-point average, and test-score requirements, consult the individual program descriptions in this publication.)*
College of Arts and Sciences (Continued)				
Interdepartmental Science	M.S.S.T., M.S.	All terms.	Standard.*	Two letters of recommendation; GRE General or Miller Analogies Test for M.S.S.T.
Language and Foreign Studies	M.A.	All terms.	Standard.*	Two letters of recommendation from recent professors unless previous degree earned in department. Language and Foreign Studies: proficiency in appropriate language and culture. Linguistics: International students must take TOEFL.
Literature	M.A., M.F.A.	All terms.	Standard* for M.A., March 15 for M.F.A. for fall.	Two letters of recommendation; GRE General recommended; samples of written work desirable, required for M.F.A.; interview recommended. Send writing samples to department.
Mathematics, Statistics, and Computer Science	M.A., M.S., Ph.D.	All terms, preferably fall.	Standard,* except for graduate assistantships: March 15 for fall.	M.S.: previous coursework or work experience or willingness to do remedial work before beginning program; two letters of recommendation. Ph.D.: Two letters of recommendation unless previous degree earned in department.
Performing Arts	M.A.	All terms.	Standard.*	Two letters of recommendation; interview/audition preferred (required for provisional-status students and performance majors). Music composition majors must present a folio of three compositions of different kinds.
Philosophy and Religion	M.A.	All terms.	Standard.* Philosophy : Two letters of recommendation; GRE General recommended.	Religion: Two letters of recommendation; GRE General recommended.
Physical Education	M.S.	All terms, preferably fall.	Standard*	Program application, two letters of recommendation, Human Anatomy and Physiology, and Exercise Physiology.
Physics	M.S., Ph.D.	All terms.	Standard.*	Ph.D.: Two letters of recommendation unless previous degree earned in department.
Psychology	M.A., Ph.D.	Ph.D., fall only; M.A., all terms.	February 1 for clinical program;	Two letters of recommendation; GRE General and Advanced Psychology

*The standard deadlines for application are: Fall—August 1; Spring—December 1; Summer—April 15. The deadlines for international applicants not in the U.S. are: Fall—June 1; Spring—October 15; Summer—March 15.

Graduate Admission Requirements (Continued)

Teaching Unit	*Degrees Offered*	*Applications Accepted for*	*Application Deadline*	*Requirements in Addition to University Requirements (Note: For degree, grade-point average, and test-score requirements, consult the individual program descriptions in this publication.)*
College of Arts and Sciences (Continued)				
			February 15 for experimental and social programs.	required. Consult department for details.
Sociology	M.A., Ph.D.	All terms.	Standard,* March 1 for financial aid.	Two letters of recommendation. GRE General recommended but not required.
Kogod College of Business Administration				
	M.B.A., M.S., J.D./M.B.A.	All terms.	June 30 for fall; November 1 for spring; March 15 for summer.	Two letters of recommendation from professors or employers; GMAT for all programs except M.S. in Accounting and Taxation where applicants may substitute successful completion of the entire CPA examination for the GMAT. Appropriate employment may also be considered. Applicants for the JD/MBA must take both LSAT and GMAT and apply directly to the Washington College of Law.
Washington College of Law				
	J.D., J.D./M.A., J.D./M.B.A., J.D./M.S.,	Entering students: fall only; advanced students: all terms.	Entering students: March 15.	Baccalaureate degree from an accredited college or university; LSAT; LSDAS. For the J.D./M.B.A., applicants must take both the LSAT and the GMAT. Apply directly to the Washington College of Law.
College of Public and International Affairs				
Government and Public Administration, School of	M.A., M.P.A., M.S.H.R., Ph.D.	M.A., M.P.A.: all terms; Ph.D.: fall; M.S.H.R.: consult dept.	M.A.: February 1 for financial aid, M.P.A.: standard;* M.S.H.R.: consult dept.; Ph.D.: February 1.	Two letters of recommendation; M.A., M.P.A.: GRE General required for financial aid, essay on career interest; M.S.H.R.: Two years of managerial experience. Ph.D.: preference given to full-time candidates; GRE General and statement of purpose required.
Public Financial Management, Center for	M.P.F.M.	All terms.	Standard.*	Two letters of recommendation; GMAT scores required after admission to the program. Students whose first language is not English must take TOEFL.
International Service, School of	M.A., J.D./M.A., M.S., Ph.D.	M.A.: all terms; M.S.: prefer fall; Ph.D.: fall only.	M.A.: June 1 for fall, November 1 for spring, April 1 for summer. Ph.D.: February 1. Financial aid: February 1.	Two letters of recommendation for M.A., M.S.; three for Ph.D. GRE General. International Students educated abroad must take TOEFL. For J.D./M.A., applicants must have completed first year in the Washington College of Law. LSAT accepted in place of GRE.
Justice, School of	M.S., J.D./M.S.	All terms.	Standard.* M.S.: February 1 for	Two letters of recommendation; GRE General required of U.S. citizens;

*The standard deadlines for application are: Fall—August 1; Spring—December 1; Summer—April 15. The deadlines for international applicants not in the U.S. are: Fall—June 1; Spring—October 15; Summer—March 15.

Graduate Admission Requirements (Continued)

Teaching Unit	*Degrees Offered*	*Applications Accepted for*	*Application Deadline*	*Requirements in Addition to University Requirements (Note: For degree, grade-point average, and test-score requirements, consult the individual program descriptions in this publication.)*
College of Public and International Affairs (Continued)				
			financial aid.	TOEFL of others for M.S.; J.D./M.S. applicants must have completed first year in Washington College of Law. LSAT scores may be used in place of GRE scores.
Technology and Administration, Center for	M.S.T.M.	All terms.	Standard.*	Consult Center for Technology and Administration.
Special Programs				
Interdisciplinary Studies	M.A., M.S.			Graduate students must first be accepted into another program and may then transfer into an interdisciplinary studies program.

*The standard deadlines for application are: Fall—August 1; Spring—December 1; Summer—April 15. The deadlines for international applicants not in the U.S. are: Fall—June 1; Spring—October 15; Summer—March 15.

University Degree Requirements

It is university policy that no student shall be involuntarily subject to regulations and academic requirements introduced during the student's continuous enrollment in good standing in a single degree program if the new regulations involve undue hardships or loss of academic credits earned to satisfy the requirements previously in effect.

Graduate students are governed by the following minimum requirements for the graduate degree (each teaching unit may have further requirements). Graduate students are advised to consult their own adviser, department chair, or dean for detailed information.

Semester Hour and Residence Requirements

Master's Degrees

At least thirty semester hours of graduate work including (a) six semester hours of research resulting in a thesis (the thesis option) or (b) six semester hours of graduate work with grades of B or better involving a case study, an in-service project, an original creative work, specified research courses, or such other effort as the academic unit may designate (the nonthesis option).

At least twenty-four of these hours, including the thesis or nonthesis option, must be completed in residence at The American University. No more than twelve semester hours taken in nondegree status at The American University may be counted toward the degree.

Doctoral Degrees

For students admitted to graduate work at The American University without a previously earned master's degree, the requirement is seventy-two semester hours of graduate study including no fewer than twelve and no more than twenty-four hours of directed study on the dissertation. At least forty-two of these hours, including the research requirement, must be completed in residence at The American University. No more than twelve semester hours taken in nondegree status at The American University may be counted toward the degree. Course credit earned toward a master's degree at The American University may, if relevant, be counted toward the Ph.D. degree.

For students admitted with a master's degree earned previously, the requirement is at least forty-two semester hours of additional graduate work, of which thirty-six hours, including the research requirement, must be completed in residence at The American University.

Prerequisite Undergraduate Credit

Credit earned in undergraduate courses taken as required prerequisites for other courses by graduate students may not be counted toward satisfying the total credit requirement for a graduate degree, and grades earned in such courses are not used in calculating the student's grade-point average.

Grade Requirements

Students enrolled in a graduate program must maintain a cumulative grade-point average of at least 3.00 in order to remain in good standing and to graduate. The calculation of the graduate cumulative grade-point average is specific to the program in which a student is enrolled. Only graduate-level American University courses that are accepted by the degree-conferring teaching unit as fulfilling degree requirements are included in the cumulative grade-point average.

Minimum Grades

No degree credit is earned by a graduate student for any grade lower than C (2.00) received in a graduate-level course. However, grades lower than C (2.00) are used in calculating the grade-point average.

Tools of Research

Each academic unit specifies the tool-of-research requirement. Tools should relate to research in the student's discipline. The student's satisfaction of tool requirements is certified by the teaching unit, but aid in ascertaining this may be sought outside the unit.

Advancement to Candidacy

Each academic unit may at its discretion require a formal advancement to candidacy and determine the nature of the advancement procedure it will use.

Examinations

Master's Degrees

At least one comprehensive examination, the nature and scope of which are determined by the academic unit, is required.

An oral examination on the thesis may be required by the academic unit.

Doctoral Degrees

At least four comprehensive examinations are required, at least one of which must be oral. At least two of the comprehensive examinations must be written and must be taken within one year following the completion of the residence requirement. A qualifying examination and master's comprehensive examination, if taken at The American University, may, at the discretion of the academic unit, be credited toward the comprehensive requirements for a doctoral degree. Comprehensive examinations given by other institutions will not be credited toward the satisfaction of degree requirements.

An oral examination on the dissertation is required.

Examination Timetable

For both master's and doctoral degree students, the dean or department chair (or designated representative) deter-

mines the time and eligibility for taking the comprehensive, tool, and (where required) oral examinations.

Application to take comprehensive examinations is made to the academic unit on a standard form available from that office. After approval is obtained, the student pays the appropriate fee at the Office of Student Accounts. In most cases, students should plan to apply during the first week of classes of the semester in which they plan to take the examinations.

Examination Fields

Although fields for comprehensive examinations may have been planned early in the graduate student's academic career, it is possible to change the fields up to the time the student actually submits an application to take the comprehensive examinations. Each college, school, or department offers its current list of standard comprehensive examination fields, including certain "core" fields and areas in which candidates in particular degree programs must present themselves for examination. (These fields are listed under the various teaching units in this publication.) A student may choose from the list (including the required core) the ones that are appropriate to the student's own interests and objectives.

In some disciplines, it is possible to choose a field outside the major area of interest, but such a field must be one that is available at the time of the candidate's application to take the comprehensive examinations.

Examination Grading

Usually, each comprehensive examination written by a candidate is read by two readers and is rated "distinction," "satisfactory," or "unsatisfactory" by each. In order to pass the examinations, the candidate must obtain at least satisfactory from both readers in each of the examination fields. In the event of a disagreement in the ratings between readers as to whether or not the candidate should pass, a third reader is appointed to break the deadlock.

Each dean or department chair may, however, elect to determine a different system of grading comprehensive examinations. Students should consult the specific college, school, or department to ascertain what system is used. The system described above is the traditional one used by most of the university.

Re-examination

Comprehensive Examination: A student who fails a comprehensive examination (other than a qualifying examination) may be permitted additional attempts within two years. The nature and extent of the examination to be retaken and the number of retakes allowed will be determined by the academic unit. Teaching units may establish their own rules for retaking qualifying examinations.

Thesis and Dissertation Oral Examinations: In the event of failure to complete the oral examination satisfactorily, the academic unit may, at its discretion, permit one retake.

Theses and Dissertations

Thesis and Nonthesis Options

For master's candidates, the thesis is expected to demonstrate the student's capacity to do original, independent research. Some colleges, schools, and departments offer the opportunity to substitute a case study, an in-service project, an original creative work, or specific advanced research courses in lieu of a thesis. In each such case, the thesis seminar or other accepted alternative must be considered part of the residence requirement for the master's degree and must meet the standards of the individual college, school, and department as well as those of the university.

No academic credit is given for the master's thesis unless the student registers for the thesis seminar. However, a student should not enroll for this seminar until ready to start work on the formal thesis proposal or the thesis itself. Traditionally, an advisory committee is appointed for each candidate working on a thesis. The committee may be composed of no fewer than two members, at least one of whom must be a member of the full-time faculty. An oral examination by this committee is often required. Suggestions for revision may be made as conditions that must be met before members will sign the title page of the thesis. If the chair of the thesis committee or the department chair certifies failure to complete a satisfactory thesis, the student may be dismissed from the university.

A student who writes a thesis must adhere to the required form and content for the proposal and to the other procedures described in detail in the published guides that may be obtained from the office of the dean of the college or school.

Students electing the nonthesis option should consult the individual program descriptions in this publication and obtain specific departmental requirements from their teaching units. The university minimum requirement is two research-oriented courses. These courses must be completed with grades of B or better.

Dissertation

Capping the requirements for the doctorate is the dissertation, together with the required oral examination of the dissertation by the student's teaching unit. Normally, the candidate must have completed all other academic requirements for the degree before the oral examination can be held.

A candidate who is declared ready to proceed to the dissertation must submit a dissertation topic proposal reporting the results of preliminary research. This proposal should contain, among other things, a concise statement of the major problem of research and of related supporting problems, the data to be used, a selected bibliography, a statement of the probable value or importance of the study, a brief description of the methods to be used, and a preliminary outline of the dissertation in some detail.

After approval of the proposal by the candidate's adviser, it is presented to the dean of the college or school for final approval. Acceptance of the proposal indicates that the topic is a suitable one and that the dissertation will be accepted if developed adequately by the candidate. The university will take responsibility for directing research only in fields and problem areas that its faculty members feel competent to handle. Acceptance of a dissertation topic proposal under no circumstance commits any department or school or the university to accept the dissertation itself.

A dissertation advisory committee of three to five persons is usually appointed by the candidate's academic dean for each candidate undertaking a dissertation. After the draft manuscript has received the tentative approval of all members of the committee, the committee chair arranges for the oral examination. This covers the dissertation itself and the

general field in which it lies. All members must agree that the candidate has passed the oral examination. Conditions to be met before final acceptance of the dissertation may be specified without necessarily holding a second oral examination. If the chair of the dissertation committee or the department chair certifies failure to complete a satisfactory dissertation, the student may be dismissed from the university.

Protection of Human Subjects

Any proposed thesis or dissertation in which research will involve experimenting on, interviewing, surveying, or observing human beings is subject to review under the regulations of The American University to determine whether the researcher has made adequate provision for the protection of human subjects. The American University regulations are based on 45 Code of Federal Regulations 46, "Protection of Human Subjects."

Candidates who request outside funding for research have their proposals reviewed by the University Institutional Review Board. If no outside funding is involved, the teaching unit designee conducts the review. Each candidate is requested to complete The American University Institutional Review Board form, Report of Research Proposal Review. It is the responsibility of the degree candidate to submit it for review and to make any revisions required to the research plan to bring it into compliance.

A copy of The American University regulations and the review form are available from the teaching unit chair or designee for human subject review, or from the review board office in the Office of Program Development and Administration.

Thesis or Dissertation Progress

It is the collective responsibility of the student, the student's adviser, and the student's committee to ensure that satisfactory progress is being made on the student's thesis or dissertation. The student may request, at least once each semester, that the committee meet with him or her to discuss progress.

Final Manuscript

Candidates are responsible for being familiar with and complying with the regulations concerning the form and preparation of the final manuscript, abstract, copyright, and so forth, which may be obtained from the dean or department chair of the teaching unit offering the doctorate. Certain deadline dates are found in the *Schedule of Classes* published for each academic term. These must be met if a candidate expects to receive a degree at the appropriate commencement.

Filing of Thesis or Dissertation

On completion of the final manuscript, a student obtains the signature of the department chair and dean on the Thesis/Dissertation Completion form, and takes the form and the manuscript to the Office of Student Accounts to pay the fee. This fee is required for entering into the mandatory agreement with University Microfilms. Every thesis and dissertation must be microfilmed. The student then proceeds to the Office of the Registrar for certification of the completion of degree requirements, and then to the library for filing of the manuscript. This procedure is to be followed after all other requirements for the degree have been satisfied.

Publication

It is the policy of the university to encourage publication of dissertations, case studies, and theses, with acknowledgment to the university. If substantial alterations are made before publication, this fact must be noted in the prefatory statement that gives acknowledgment.

Academic Standards and Regulations

Academic Probation and Dismissal

A graduate student who fails to maintain a 3.00 grade-point average after completion of the first twelve semester hours of graduate study may be placed on academic probation for one semester, after which the student must achieve and maintain a 3.00 average or be dismissed. A graduate student may be placed on academic probation only once.

It should be noted that the grade-point average is only one measure of academic performance. Maintenance of the required average does not necessarily imply that a student is making satisfactory progress, and the university reserves the right to dismiss a student whose performance is judged unsatisfactory even though the student has maintained the required grade-point average. A student who is dismissed may not be readmitted to the university or enroll as a nondegree student for a full year after the effective date of the dismissal.

Academic Load and Full-Time Status

The normal load of full-time graduate study is nine to twelve semester hours a semester; however, an academic unit may declare circumstances under which full-time involvement in thesis or dissertation research constitutes full-time standing.

In summer sessions, because of the combination of six-week and seven-week sessions, there are various possibilities for full-time standing. Usually, registration for six semester hours during any session is considered full time.

Maintaining Matriculation

Students whose degree requirements have not been completed must register each fall and spring semester during regular registration periods for courses, for thesis or dissertation seminars, or for maintaining matriculation. Those who do not will be considered as having withdrawn. Such students may then reapply and, if readmitted, are governed by requirements and regulations in effect at the time of readmission.

Students who change degree objective, college, or school, whose candidacy for an advanced degree expires, or who choose to conform to new regulations or requirements must be prepared to complete all requirements and abide by all regulations in effect at the time such a change is made.

Statute of Limitations

Candidates for a master's degree must complete all degree requirements no later than three years after the date of first enrollment in the degree program. Candidates for the doctoral degree must complete all degree requirements no later than five years after the date of first enrollment in the doctoral program, or seven years if the doctoral program was entered directly from a bachelor's degree.

A student may petition for an extension of candidacy in a degree program for a limited period if such extension is sought before these time limits expire. In no case may the total amount of time granted in extensions of candidacy exceed three years. If, however, the time limit has expired, a student may seek readmission to the university for a period of no more than three years, less any time granted in previous extensions of candidacy.

Readmission to an advanced degree program may involve completing additional courses or other appropriate work. Any degree calling for additional undergraduate prerequisite courses has the statute of limitations extended for the amount of time required to complete them.

All But Dissertation Master's

Students who enter a doctoral program without a master's degree may be awarded the appropriate master's degree by The American University in the field in which their doctoral work is being done when they have completed all requirements for the doctorate except the dissertation.

Leave of Absence

Graduate students are not eligible for a Leave of Absence, except for reasons of military or government assignment required as a direct result of hostilities or war in which the United States is engaged, or for incarceration resulting from refusal to accept induction under such circumstances. In such instances, a tuition refund will be given and other charges prorated on the basis of the number of weeks during which the student was registered for classes in a given semester. If a student has completed at least ten weeks of a session, he or she may be given full credit for any course, subject to the approval of the instructor and department chair. Additional work may be required. No tuition refund will be given for courses for which credit was given.

A student whose studies are interrupted for the reasons stated above may resume study at The American University in the same degree program, provided he or she returns within a period of six months following the completion of duties and provided that the degree program in which the student was enrolled is still offered. A student who wishes to be enrolled in a different degree program must apply for readmission.

Changes in Field of Study

A graduate student who wishes to change field of study or school affiliation may request an approval of the change on the appropriate form available in the Office of the Registrar. A graduate student who wishes to change colleges must apply through the Office of Admissions. A student who changes field of study may lose credit already earned in other study that is not appropriate to the new program.

Study at Another Institution

In a program of graduate study, circumstances may arise wherein a graduate student, with the advice and counsel of the student's academic unit, may find it appropriate to take a graduate course available only at a nonconsortium institution. In this event, the student must secure in advance approval in writing from his or her adviser and dean. Approval is granted for specific courses. The student must, however, conform to regulations governing the maintenance of matriculation at The American University during each fall and spring semester. In addition, the student must still satisfy the residence requirement of the university.

Transferred courses must be completed with a grade of B or better for graduate degree credit. Grades for transferred courses are not recorded on The American University's permanent record or computed in the student's grade-point average.

Nondegree Study

The nondegree program of The American University enables qualified students to register for regular university course work without first being admitted to undergraduate or graduate degree programs. Through this program, the university is able to meet the educational needs of students who, for academic or other reasons, find it to their advantage to enroll in nondegree status. Undergraduate-level nondegree status is available to students without a bachelor's degree, and graduate-level nondegree status is available to students with either a bachelor's or graduate degree.

Nondegree students may register for the courses of their choice for which they have the necessary background and qualifications. Such courses may be taken for letter grades, pass-fail, or may be audited.

Nondegree students are required to have a University Programs Advisement Center (UPAC) adviser's approval as part of the registration process. Students must also secure the permission of the department chair or appropriate faculty member or both to enroll in advanced graduate (600-or 700-level) courses, independent reading courses, and other special-permission courses as required by schools and departments.

Students in nondegree status are held to the same academic standards as degree students. To remain in good standing, nondegree students enrolled at the undergraduate level must maintain a cumulative grade-point average of 2.00; students enrolled at the graduate level must maintain a cumulative grade-point average of 3.00. Nondegree students who fail to maintain the required average will be denied further permission to enroll.

Eligibility

Enrollment in nondegree status is open to U.S. citizens (1) who have a high-school diploma or an equivalency diploma based on the results of General Educational Developmental Tests; (2) who are in good standing if currently enrolled in another collegiate institution; or (3) who are high-school seniors who have a B average and are recommended by a school counselor or principal. Nondegree students must meet the prerequisites of the course or courses desired.

International students may register in nondegree status if they abide by the regulations stipulated in the "International Student Information" chapter following. Because of U.S. legal requirements, application for permission to enroll in nondegree status should be made well in advance of the general registration period (see "Academic Calendar, 1987–1988" in the front of this publication).

Students currently enrolled as undergraduate or graduate degree students in any of the member institutions of the Consortium of Universities of the Washington Metropolitan Area may not register in nondegree status at The American University.

A student who has ever been dismissed from The American University or another college or university may not ordinarily register for course work in nondegree status until one calendar year from the date of dismissal. To request an exception, a student should make an appointment with an adviser in the University Programs Advisement Center well in advance of registration to determine eligibility.

Once admitted to a degree program at The American University, a student ordinarily may not register in nondegree status until the degree program is completed. Persons denied admission to a degree program may not ordinarily enroll in nondegree status.

Admission to Degree Status

Undergraduate-and graduate-level students who wish to be considered for admission to a degree program must submit the appropriate application forms and all required supporting documents for degree admission to the Office of Admissions. Such students should bear in mind that only twelve semester hours of nondegree credit may be transferred to degree status at the graduate level, and only thirty semester hours of nondegree credit may be transferred to degree status at the undergraduate level.

-CONT

International Student Information

The following regulations apply to all students who are not citizens of the United States of America, including students with permanent immigrant status.

Degree Admission

In addition to submitting the university's application for admission and meeting the requirements set forth in the application, all international students applying for admission as degree students must arrange to have official transcripts sent directly to the Office of Admissions from all secondary schools and colleges attended. These documents should be sent well in advance of the semester for which the applicant seeks admission. Personal student papers, photostats, or attested copies are not accepted for evaluation purposes.

All international students whose first language is not English and who are applying for admission as undergraduate or graduate degree students must take the Test of English as a Foreign Language (TOEFL). Information regarding the procedure for taking this test may be obtained from TOEFL, Educational Testing Service, Princeton, New Jersey 08541, U.S.A.

Nondegree Enrollment

All international nondegree students must begin their registration in the University Programs Advisement Center (UPAC). International students who wish to take courses in nondegree status must present to the Advisement Center evidence of their successful completion of high school (or its equivalent) and of courses taken in any colleges or universities attended in order to enroll. Nondegree international students should present photocopies of translated documents for evaluation and counseling purposes. These documents will remain in the student's file in the Advisement Center. International students in nondegree status must request that official documents be sent to the Office of Admissions when they apply for admission to a degree program.

English Language Requirement

All students, degree and nondegree, whose first language is not English are required to have their English proficiency evaluated by the English Language Institute before their first registration. International students whose command of English is insufficient to follow the program in which they wish to enroll will be required to take special courses in English as a second language.

Students placed in four English classes (intensive English) may not take any other courses concurrently. Exceptions require the permission of the English Language Institute and the student's academic adviser.

Visa Requirements

United States Department of Justice, Immigration and Naturalization Service regulations governing nonimmigrant students with F-1 or J-1 visas require international students in this category to pursue a full course of study while maintaining nonimmigrant student status.

The American University requires all nonimmigrant F-1 and J-1 students to pursue a full course of study each semester during the period of their enrollment as a condition to the issuance of U.S. immigration documents necessary for maintaining nonimmigrant foreign student status as F-1 or J-1 visa participants.

Under this regulation, an undergraduate student will be required to register for at least twelve semester hours and a graduate student will be required to register for at least nine semester hours of course work each semester. Any change in registration which results in a course load below these minimum requirements must be authorized by the director of the International Student Center in consultation with the director of international admissions and the academic adviser. Students who fail to meet these requirements will not be eligible to receive a Certificate of Eligibility (Form I-20), Form IAP-66, or any other letters of certification in support of their continuation in nonimmigrant F-1 or J-1 visa status.

All students bearing Nonimmigrant Foreign Student F-1 visas are required to attend, initially, the educational institution which issued the Certificate of Eligibility (Form I-20) used in obtaining the visa. Students intending to transfer to another U.S. educational institution should report to the International Student Center to discuss the transfer before it is made.

Students in the Exchange Visitor visa category (J-1) requesting transfer to the university's private exchange-visitor program from another school's exchange-visitor-program must obtain approval from the director of the International

Student Center before admission to the university becomes valid. This applies to all students entering the university for the first time who hold a J-1 visa at the time of admission.

Questions concerning United States Immigration and Naturalization Service regulations should be directed to the International Student Center.

Health Insurance

Health insurance is mandatory for all full-time international students with F-1 or J-1 visas. Students who are already covered by health insurance must fill out a waiver form available in the Student Health Center, Nebraska Hall. Students who do not submit waiver forms will be required to enroll in the university's group health program, and these students will be billed accordingly.

Registration Procedures

In addition to the normal registration instructions, the following regulations apply to international students.

1. All students who are not citizens of the United States are required to obtain the signature of the international student adviser at the time of registration for courses. This includes special group registration as well as regular registration.
2. New international students, whether degree or nondegree, must take an English proficiency test required by the university before they register.
3. International students may take courses in the university's off-campus program, but they may not register at off-campus centers; registration must be completed on campus.
4. All new nondegree international students should begin their registration in the University Programs Advisement Center at least five working days before the end of registration. Failure to do so may cause the new nondegree international student to be registered during the period of late registration and therefore to be subject to the late registration fee. Students must present translated copies of their previous academic records in order to enroll.

English Language Institute

International students wishing to enroll in the English Language Institute, either full time or part time, must have completed the equivalent of a U.S. high-school education (twelve years of schooling).

Students who are applying for permission to enroll in the English Language Institute for English only do not have to take the Test of English as a Foreign Language (TOEFL).

After filing an application, a financial verification form, and notarized and translated academic transcripts or proof of completion of high school, students who are accepted will be sent a formal letter of acceptance and a Certificate of Eligibility (Form I-20) for a student visa if one is required.

Admission to intensive English courses in the English Language Institute in no way implies eligibility for admission to any program or course of study in other divisions of The American University. See the English Language Institute section under the College of Arts and Sciences in this publication.

Information and course dates will be mailed upon request by writing to the English Language Institute, College of Arts and Sciences, The American University, Washington, D.C. 20016, U.S.A., or by calling (202) 885–2147.

Tuition, Expenses, and Financial Aid

Tuition and Expenses

Undergraduate students who register for twelve to seventeen semester hours are assessed tuition at the full-time rate. Undergraduate students who register for fewer than twelve semester hours are assessed tuition based on the number of semester hours taken. Undergraduate students who register for more than seventeen semester hours are charged the full-time tuition rate with an additional charge for each semester hour over seventeen.

Graduate and nondegree students are assessed tuition per semester hour.

The off-campus tuition rate differs from the rate for on-campus courses. Full-time undergraduate students, however, who register for courses both on and off campus are assessed tuition at the on-campus full-time rate.

Washington College of Law students are assessed tuition on the same basis as are undergraduate students. However, the Washington College of Law tuition rate differs from that of the rest of the university.

Given probable continuation of current economic conditions, as well as the need to continue to accelerate the academic development of the university, it is reasonable to expect that tuition and fee increases will be required for each year in the near future. The university will attempt, however, to limit tuition and fee increases to reasonable levels.

Tuition and General Fees

Note: The tuition, fees, and board charges listed below are for the 1986–1987 academic year and will increase for the 1987–1988 academic year. Consult the Office of Student Accounts for current information.

Tuition

Undergraduate Students
- Full-time (12–17 semester hours) $4467
- Part-time (per semester hour) 299

Graduate Students (per semester hour) 314

Law Students
- Full-time (12–17 semester hours) 4705
- Part-time (per semester hour) 349

(For the purpose of determining full-time status, noncredit courses will be included in and equated with credit courses according to the number of scheduled meetings each week.)

Nondegree Students (per semester hour) 299

Off-Campus Programs
- Full-time (12–17 semester hours) 4050
- Part-time (per semester hour) 270

Auditors pay the same charges as students enrolled for credit and are subject to all applicable special fees listed below.

Institutes: Charges for institutes and other special courses may be found listed under their departments and schools in the *Schedule of Classes* published each academic term.

Residence Hall and Board Charges

Residence Hall Charges per Semester

Campus Dormitory
- Single Occupancy $1614
- Converted Double 1885
- Double Occupancy 1308
- Triple Occupancy 954

Residence Hall Association Fee 6

(Optional: will be waived only on submission of waiver form to the Office of Residential Life before the end of the first week of classes. Once paid, this fee is nonrefundable.)

Glover-Tunlaw Residence Hall

Units leased on an annual basis during the period June 1–May 31 at the following monthly rates:
- One-Bedroom Unit (per month) 550
- Two-Bedroom Unit (per month) 775

Nebraska Hall
- Single Occupancy $1885
- Double Occupancy 1482

Board Charges per Semester

5 Lunches a Week Contract $326

5 Meals a Week Contract 423

10 Meals a Week Contract (five days) 703
14 Meals a Week Contract (seven days) 790
19 Meals a Week Contract (seven days) 817

Special Fees

These fees are nonrefundable. The charges listed below are not included in tuition and general fees.

Special course and laboratory fees are listed under the individual departments and schools in the *Schedule of Classes* published for each academic term and are also nonrefundable.

Admission Application Fee
- Undergraduate $25
- Graduate 25

Readmission Fee 25
Reinstatement Fee 25
Deferred Payment Plan Fee (per semester) 30
Late Registration Fee 50
(Effective the first day of the term.)
Alumni Audit Program Registration Fee 50
Student Picture ID Card Replacement Fee 5
Faculty/Staff Registration Fee 50
(For employees of the university or their spouses or children registering under the tuition-remission benefit.)
Admission Testing Fee (per test) 5
Official Transcripts Fee (per transcript) 2
Financial Aid Transcript Fee 2
Law School General Fee (per semester) 50
Student Confederation Fee (per semester)
- Full-Time Students 35
- Part-Time Students 5

(Mandatory for all undergraduate degree students.)
Health Fee (per semester) 35
(Not charged separately to full-time campus residents; required of all others who wish to use student health center facilities.)
General Parking Vehicle Registration Fee (per year) 140
Residence Hall Student Motor Vehicle Registration Fee (per year) 230
Evening Parking Vehicle Registration Fee (per semester) 36
Returned Check Fee 15
(For personal checks not honored by the bank.)

Graduate Student Fees

Graduate Student Council Fee (per semester) $10
(Mandatory for all graduate students, full-time and part-time.)
Maintaining Matriculation Fee (per semester) 314
Comprehensive Examination Application Fee (per examination)
- Master's and Doctoral 25
- Additional Fee if *in Absentia* 100

Microfilming
- Master's Thesis or Case Study 25
- Doctoral Dissertation 35

Graduation Fee

Graduation Application Fee $25

Note: For estimated total yearly cost of attendance at The American University, see "Financial Aid" below.

Payment

Students participating in advance registration must pay the balance due on or before the due date as indicated on the bill sent from the Office of Student Accounts.

Students participating in direct registration must pay the balance due on the day they register.

Deferred Payment Plan

Registered students whose total bill, after deducting all forms of tuition assistance, exceeds $1900 may elect the deferred payment plan. Under this plan, the student pays one-half the amount due by the initial due date and the remaining balance approximately seven weeks later. The amount due includes all charges, billed or unbilled, which have been incurred or will be incurred during the current semester.

The charge for the university deferred payment plan is $30 each semester (not refundable).

Late Payments and Financial Stops

A late fee of $25 may be assessed against a student's account for failure to meet the initial payment due date. A late fee of $50 will be assessed for failure to meet the deferred payment due date.

In addition, failure to make payment when due may result in a financial "stop" being placed on a student's account. The financial stop may in turn result in a "hold" being placed on the student's academic records, including transcript and diploma, and may result also in denial of advance registration and use of the deferred payment plan or other credit privileges. Financial stops may be removed following assessment and payment of a $25 reinstatement fee.

A student who has once had a financial stop placed against his or her account may be denied future advance registration and deferred plan privileges even though the student has been reinstated on payment of the reinstatement fee. Repeated failure to make payments when due may result in severance of the student's relationship with the university.

Cancellation of Charges

The appropriate forms, available in the offices of the deans and in the Office of the Registrar, must be completed to withdraw officially or to reduce course load. The amount of tuition to be canceled will be calculated as of the date on which the withdrawal forms are received at the Office of the Registrar and in accordance with the tuition cancellation schedule in the *Schedule of Classes*.

Complete withdrawal from the university during or before the first week of classes will result in full cancellation of tuition charges provided the withdrawal form is received in the Office of the Registrar and dated no later than the first week of classes.

A full cancellation of tuition will also pertain to a course dropped during the first week of classes. Course drops that result in course-load reduction during or before the first four weeks of classes are subject to the percentage cancellation schedule published in the *Schedule of Classes* for the semester.

Requests for refunds are made at the Office of Student Accounts.

Discontinuing attendance in class or notifying an instructor does not constitute an official withdrawal. Students who do not officially withdraw during the cancellation period will be responsible for payment of the full amount of the applicable tuition and fees.

Requests for cancellation of room charges must be made through the Office of Residential Life.

Requests for cancellation of meal booklets must be processed through the Food Service Office.

Payment by Employer or Agency

A student requesting employer or agency billing arrangements must furnish the Office of Student Accounts with a valid contract or purchase order before the first day of classes. A contract or purchase order must contain the following information: (1) student name and social security number, (2) term of attendance, (3) specific costs and amounts to be paid by the sponsor (tuition, books, supplies, and fees), (4) sponsor's billing address, and (5) contract or purchase order number or accounting appropriation, if applicable. Documentation submitted in lieu of a valid purchase order will not relieve a student of financial responsibility. It is the student's responsibility to notify the Office of Student Accounts of any course or section changes and, if necessary, to submit a modified contract.

In case of partial assistance, the student is required to pay the balance of his or her tuition costs at the time of registration in order to be considered registered. If the amount the student must pay qualifies for the university deferred payment plan, it is to be paid by the deferred due date. Failure to comply will result in the assessment of a late payment fee. See "Late Payments and Financial Stops" above.

A student entitled to Campus Store credit may obtain a book charge form from the Office of Student Accounts. Purchases are permitted through the end of the add-drop period. (For special extensions, consult the Office of Student Accounts.)

A student is responsible for payment of any billed amounts which have been disallowed by his or her sponsor.

University Employee Benefits

Only full-time permanent faculty or staff employees of The American University are eligible for tuition benefits. There is a nonrefundable $50 registration fee.

Applications for faculty, staff, and spouse benefits are available at the Office of Staff Personnel Services. The completed application must be approved by the Office of Staff Personnel Services and submitted to the Office of Student Accounts at the time of registration.

Advance-registered students should submit the approved form by the beginning of the semester.

Tuition benefit forms for children of faculty or staff employees are available at the Office of Staff Personnel Services.

Financial Aid

All new or readmitted students must follow these steps to receive priority consideration for financial aid:

1. Submit admissions applications and all necessary supporting documents to the Office of Admissions by the appropriate deadlines.
2. Complete a 1987–1988 Financial Aid Form (FAF) after January 1, 1987.
3. Mail the form to the College Scholarship Service no later than January 31, 1987, so that the service's analysis of the FAF is received in the Office of Financial Aid by March 1, 1987, the priority deadline.

   Applications received after March 1, 1987, will be reviewed after on-time applications in order of receipt as long as funds are available.

   New students should not wait to be admitted before filing the FAF. A financial aid application has no bearing on a student's admission application. However, a student will not receive final consideration for aid until he or she is admitted to a degree program.

   All transfer, new graduate, and new law students must provide a financial aid transcript from all postsecondary schools attended.

Undergraduate

The American University has an extensive program of scholarships, loans, and grants. See "American University Programs" below.

The college-based federal programs include: National Direct Student Loans (NDSL); Supplemental Educational Opportunity Grants (SEOG); College Work-Study (CWS); and Federal Nursing Loan Program (FNLP). Pell Grants are available through application to the federal government, and Guaranteed Student Loans (GSL), Parent Loans for Undergraduate Students (PLUS), and Supplemental Loan for Students (SLS) are available from banks, credit unions, and other lenders. See "Filing Instructions" below for information concerning application procedures.

Graduate

College-based federal programs include: National Direct Student Loans (NDSL) and College Work-Study (CWS). Graduate Honor Awards and graduate assistantships are available, and information concerning application is given in "Filing Instructions" below.

Guaranteed student loans and PLUS/SLS loans are available from banks, credit unions, and other lenders.

Students in the Washington College of Law should use the Financial Aid Form to apply for NDSL and CWS and the Graduate and Professional Student Financial Aid Service (GAPSFAS) form to apply for Washington College of Law financial aid programs. The law school recommends that students file the GAPSFAS by February 1, 1987. Guaranteed student loans and PLUS/SLS loans are available from banks, credit unions, and other lenders.

Filing Instructions

(1) Incoming students must complete the American University Application for Admission. A student will not receive

final consideration for aid until he or she is admitted to a degree program.

(2) Incoming and continuing students should file a Financial Aid Form (FAF) with the College Scholarship Service (CSS) at the address given on the form and request CSS to send a copy to The American University (code 5007). Students will be considered for all programs for which they are eligible. Awards are based on the student's need and the amounts and kinds of assistance available; however, funds are limited. Awards are made beginning in late March, and students with complete financial aid files receive first consideration for the monies available. Aid recipients must reapply each academic year to be considered for further funds.

Be sure that the FAF is for the same academic year for which the application for aid is made. If the applicant is requesting aid for the 1987–1988 academic year, the 1987–1988 FAF must be submitted. The form is available from most secondary schools and colleges and from The American University, Office of Financial Aid.

(3) File financial aid transcripts (if appropriate). All incoming transfer, graduate, and law-school aid applicants must submit a financial aid transcript from all institutions previously attended. Transcript forms are available in the Office of Financial Aid. Incoming applicants must request each institution to send a transcript to The American University, Office of Financial Aid. Federal funds may not be disbursed to students until such transcripts are received.

(4) File a Selective Service Registration Compliance Form and Certification of nondefault loan status with the Office of Financial Aid.

Financial Need

The student's financial need is defined as the difference between the cost of attendance and a reasonable expectation of assistance from the family.

All financial aid is based on the assumption that students and their parents will contribute a reasonable amount to meet educational expenses. Students and parents are encouraged to inform the Office of Financial Aid should major changes in their financial situations occur.

Estimated Cost of Attendance

Undergraduates:

Tuition	$8,930
Student Fee	70
Books and Supplies	400
Room and Board	4,250*
Personal and Travel Expenses	1,300
Total	14,950

Graduates:

Tuition	$5,652 (9 credit hours per semester)
Student Fee	10
Books and Supplies	400
Room and Board	4,250*
Personal and Travel Expenses	1,300
Total	11,612

*For students living at home or off-campus, not with parents, adjustments to these room and board averages may be necessary.

Notification

The Office of Financial Aid carefully reviews the student's financial situation. If the student is eligible for assistance and monies are available, an offer of award is made. This very often is a "package" of assistance in the form of grants, loans, and work.

The Office of Financial Aid notifies applicants who meet the priority deadline as soon as possible after receipt of all application material. New students should note that they must be admitted to a degree program before any action will be taken on their financial aid applications.

Notification Dates:

Early Decision Freshmen	January 1
Regular Decision Freshmen	March 30
Transfer	mid-June
Continuing Undergraduates	mid-June
New Graduate and Law	mid-July
Continuing Graduate and Law	mid-July

Satisfactory Academic Progress

All aid recipients in all programs must maintain satisfactory academic progress toward their degrees in order to remain eligible for consideration. This progress is defined both qualitatively and quantitatively. At the least, undergraduates are expected to complete twenty-four semester hours each year with a cumulative grade-point average of 2.00; graduate students must complete eighteen semester hours with a grade-point average of 3.00. Certain aid programs carry additional restrictions to which the Financial Aid Office must adhere. For more specific information, students should consult the Office of Financial Aid.

Refund Policy

Refunds of student aid to an eligible student are made through the university's Office of Student Accounts. Students with a credit balance must apply for a refund by completing the form "Student Refund Request" available in the Office of Student Accounts. Eligibility for a refund depends on the student recipient's enrollment status, cost of education, and date of attendance. Changes in any of these factors, such as dropping courses or withdrawal from the university, could result in the reduction of the student's aid package, thereby removing a potential credit balance. A student who withdraws from the university will receive only what balance remains, if any, after costs are calculated and aid is restored to the aid accounts, including the possible return of Guaranteed Student Loan Funds to the lender. Also, a student who receives a refund based wholly or partly on financial aid and later changes enrollment status may be required to return all or part of the refund to the university.

Financial Aid Transcripts

Students may obtain transcripts of their financial aid records from the Office of Financial Aid. There is a $2.00 charge for each official transcript. Transcripts will be released only on the signed request or release of the student concerned.

Federal Programs

To receive financial aid through a federal program, a student must be a United States citizen or have a permanent resident visa.

The College Work-Study Program (CWS)

This program provides the opportunity to work part time on campus. Students must demonstrate financial need and be enrolled at least half time.

Cooperative Education Program

This program integrates experience with academic study. Students may earn academic credit for faculty-supervised employment in full-or part-time work assignments related to their educational and career interests. Students pay tuition for course credit earned in supervised cooperative education field experience. Salaries vary with each assignment and assist students in meeting the costs of their education.

The program is open, as placements are available, to degree-seeking students enrolled in the College of Arts and Sciences, the College of Public and International Affairs, and the Kogod College of Business Administration. The Office of Cooperative Education and the Office of Financial Aid have further details and information on application procedures and eligibility.

Federal Loans

The Carl D. Perkins National Direct Student Loan Program: This program provides low-interest (5%) loans for degree-seeking students who demonstrate financial need.

A student may borrow up to a total of (a) $4,500 if the student has completed less than two years of a program leading to a bachelor's degree; (b) $9,000 for undergraduate study after completing two years of study toward a bachelor's degree (this total includes any amount borrowed under NDSL for the first two years of study); (c) $18,000 for graduate study (this total includes any amount borrowed under NDSL for undergraduate study).

Repayment begins six months after graduation or the end of enrollment on at least a half-time basis. The loan must be repaid within ten years. During the repayment period, 5% interest on the unpaid balance of the principal will be charged. Provisions for deferring or canceling payment are available in some situations. Students should consult the Office of Financial Aid for further information.

Guaranteed Student Loan Program (GSLP): A Guaranteed Student Loan is a low-interest loan, insured by either the federal government or a state guaranty agency, available to students from banks, credit unions, or savings and loan institutions. An undergraduate student may borrow (a) $2,625 per academic year if the student has completed less than two years of a program leading to a bachelor's degree; (b) $4,000 per academic year for undergraduate study after completing two years of study toward a bachelor's degree. Graduate students may borrow up to $7,500 per academic year. The total aggregate allowed for undergraduate and graduate loans combined is $54,750.

Students who wish to borrow under this program for the 1987–1988 academic year must provide income information from the 1986 tax year by filing a Financial Aid Form (FAF) to demonstrate eligibility for the loan. Tax returns and other material may be required. The demonstrated need of individual borrowers may vary.

Repayment of the loan begins six months after a borrower drops to less than half-time status and may be extended over a five-to ten-year period.

Parent Loan for Undergraduate Students (PLUS) or Supplemental Loans for Students (SLS): The PLUS/SLS program was designed to provide parents and students with additional funds to assist them in meeting educational expenses. These loans, which are not based on need, are available from banks, credit unions, and savings and loan institutions.

Parents of dependent undergraduate, graduate, and law students may borrow up to $4,000 per year up to an aggregate total of $20,000. Independent undergraduates may borrow up to $4,000 per year.

The current interest rate on the PLUS/SLS program is 12%. Repayment for parents begins within sixty days of the loan's disbursement on the principal and interest and may be extended over a five-to ten-year period. Graduate students may defer their principal payments while enrolled full-time but must make monthly interest payments. Some lenders are now allowing graduate students to defer both principal and interest payments until after they graduate.

Federal Nursing Loan Program (FNLP): The American University receives annual funding from the Department of Health and Human Services to award to degree-seeking nurses who demonstrate financial need. Nursing students may borrow up to $2,500 each year to a total aggregate of $10,000. Repayment begins six months after a student drops to less than half-time status and may be extended over a ten-year period at 6% interest. Nurses who work in an approved public health position or in the armed services may defer repayment for up to three years. No provisions for cancellation of a Federal Nursing Loan are available.

Federal Grants

Pell Grant Program: This program provides grant aid to eligible students enrolled at least half time in degree programs.

Students may apply by completing the appropriate section on the College Scholarship Service Financial Aid Form (FAF) or by completing the Application for Federal Student Aid, both of which may be obtained from post-secondary education institutions, high schools, or The American University Office of Financial Aid.

Applicants will receive a Student Aid Report (SAR) from the Department of Education and must submit all SARs and other required documents to the university. The amount of a Pell Grant award will be based on the Office of Education's determination of eligibility.

Supplemental Educational Opportunity Grants (SEOG): Federal funds are available through the university to undergraduate students with exceptional financial need.

State Scholarship and Grant Programs

Many states administer grant and scholarship programs which residents may apply for and receive while attending The American University. The District of Columbia in some cases has a reciprocal agreement with these state programs. The programs are commonly called "portable grant and scholarship programs." Students should check with local guidance counselors and state grant agencies regarding up-to-date application procedures and eligibility factors.

American University Programs

Restricted University Loans

Loans are available to needy students at The American University on a short-term basis. Funds are provided either by private endowments to the university or by the university itself. The qualifications for each of these programs vary according to the stipulations that the donors have made for the individual accounts. Funds are limited and are considered a resource of last resort.

Alumni Loan Fund: The American University Alumni Association has established a loan fund for American University alumni who are pursuing part-time graduate study. The loan must be repaid with 2% interest.

Frank W. Ballou and Adeline J. Ballou Memorial Loan Fund: This loan fund was established in 1985 by Mrs. Adeline J. Ballou of Washington, D.C. Its purpose is to assist needy and deserving students from the District of Columbia who are enrolled full-time in a degree program. Loan amounts vary.

Morris and Gwendolyn Cafritz Foundation for Middle Income Students Loan Fund: This revolving loan fund was established by a grant from the Cafritz Foundation of Washington, D.C. for middle income students who, without this assistance, would not otherwise be able to continue their education. Interest accrues at the rate of 7% per annum.

Class of 1932 and Class of 1961: These funds are lent to worthy and needy full-time undergraduate students. Interest accrues at 4% per annum.

Sinclair Dell Loan Fund: A memorial loan fund was established to honor Dr. Sinclair Dell, a Washington podiatrist who died of cancer in 1975. Repayment must be made within one year of the award at 2% interest.

General University Loan Fund: This loan is designed for both graduate and undergraduate students with no outstanding debts to the university. The interest is 4% per annum.

Bessie M. Haymaker Loan Fund: Bessie Haymaker, a longtime member of McKendree Methodist Church, bequeathed one half of the remainder of her estate to The American University. From these funds, a loan fund was established for students of the Lucy Webb Hayes School of Nursing, as recommended by the dean of that school. There is no interest charge unless a recipient defaults on the loan.

Rose Mae Howard Memorial Loan Fund: This fund was established in 1975 by the Rose Mae Howard estate to assist students who are in need of financial aid to complete their education. This loan is awarded to full-time juniors and seniors and bears a 9% interest rate upon repayment.

The Interfraternity Council Fund: This loan fund was provided by The American University Intrafraternity Council beginning in 1961. Recipients must be male orphans under twenty-one years of age. There is no interest charge on repayment.

W. K. Kellogg Fund: This loan fund is used to assist students in either clinical or preclinical years preparing to be medical technologists. The interest rate is 2% while the recipient is enrolled as a full-time student and 4% after that.

Willett M. Kempton Loan Fund: These loans are awarded to full-time graduate or undergraduate students in the School of Communication. The interest rate is 4% per annum.

Kogod College of Business Administration Student Loan Fund: This loan fund was established to help part-time or full-time undergraduate and graduate students who are enrolled and are in good standing in the Kogod College of Business Administration. Terms of the loan include a 5% rate of interest which will accrue on receipt of the loan. Repayment begins six months after graduation. This loan can be applied for in the Office of Financial Aid.

Ida Letts Educational Fund: This fund helps young men whose financial condition makes support necessary while enrolled as full-time undergraduates. The loan cannot be granted to students during their first semester. The interest rate is 2% per annum while the recipient is enrolled full-time and 4% per annum after enrollment at The American University ceases.

Long Loan: This loan was designed for the daughters of United Methodist ministers in the College of Arts and Sciences. The interest rate is 4% per annum.

Anna Mary Mann Memorial Revolving Loan Fund: These funds are restricted to women in the Kogod College of Business Administration and the School of International Service. The interest rate is 4% per annum.

William Hill McKenzie Loan Fund: This fund was established in September 1968 in memory of William Hill McKenzie IV, who died in March 1968 and was awarded a Bachelor of Arts degree posthumously in June 1968. It provides emergency assistance to full-time, married seniors at The American University. Four percent interest accrues from the date the loan is made.

Minnick Loan Fund: These funds are designed to help married seniors meet educational costs. Loans are to be repaid after graduation without interest.

Shirley E. Minus Loan Fund: This fund is designed to aid undergraduate students in good standing. The fund is especially suited to students who may not qualify for other finan-

cial aid. Three percent annual interest will accrue on the unpaid balance beginning nine months after graduation or separation from The American University.

Thomas Moore Emergency Loan Fund: This fund was established in January 1970 by Theodore and Lillian Moore as a memorial to their son Thomas, an American University sociology student killed in an automobile accident in 1969. Students may borrow up to $50.00 to meet financial emergencies.

Morris Morgenstern Loan Fund: This loan was established in 1972 by the Morris Morgenstern Foundation of Long Island, New York. It is issued for no longer than one year to students in need of emergency assistance. The interest rate after the due date is 4% per annum.

Julia Olson Loan Fund: All students in need of temporary emergency assistance qualify for this loan provided they are in good academic standing. This loan is interest free.

Stanley Posner Student Emergency Loan Fund: A short-term, no-interest loan fund to assist students in emergency situations. Loans are to be repaid in thirty days and will usually not exceed $50.00. Borrowers may be graduate or undergraduate students who are enrolled in full-time degree programs. A penalty of $1.00 is charged for every full month beyond the repayment date of the loan.

Real Estate Alumni Chapter Loan Fund: Established to assist needy students enrolled as real estate or finance majors or both in the Kogod College of Business Administration. First preference is given to real estate majors and to junior, senior, and graduate students. Loan amounts vary but may not exceed $2,500 each academic year. Current interest is at 9%. Recipients are selected by a loan committee.

Roland Rice Loan Fund: Borrowers of this loan must be students who are not qualified to receive aid from other student aid sources available at the university. Interest accrues at 4% per annum. The loan must be repaid within two years after graduation.

Residence Hall Association Emergency Loan Fund: Established in 1965 by the Women Resident's Association to assist women living in the residence halls. The fund was altered in 1976 to include men residing in campus housing. This is a short-term loan with a maximum award of $50.00.

Bertha Roberts Student Loan Fund: Made possible by a bequest from the Bertha Roberts estate in 1973, the fund provides interest-free loans to young men and women preparing for Christian ministry or missionary work, or other religious positions. Interest accrues at 5% on the unpaid balance if a default occurs; otherwise the loan is interest-free.

William and Rebecca Sachs Loan Fund: This emergency loan fund was created by the Sachs family in 1962 for needy full-or part-time undergraduates or graduates who have completed at least one semester in the Kogod College of Business Administration. The interest rate is 5% per annum.

Shaskan Family Loan Fund: The George and Myra Shaskan Foundation has made this loan available to full-time undergraduate, graduate, or law students who demonstrate financial need. Recipients must be in their final year of study to receive this loan.

Student Confederation Loan Fund: This loan fund was established for full-time undergraduates other than freshmen. The interest rate is 3%.

United States Steel Loan Fund: This fund aids full-time graduate students enrolled in the Kogod College of Business Administration. Students must be recommended by the dean. Interest accrues at 3% per annum.

Washington College of Law Dean's Loan Fund: This fund aids law students and is administered by the Washington College of Law. Interest accrues at 4% per annum.

Washington College of Law Alumni Loan Fund: This loan is funded by alumni contributions and is usually available in the amount of $1,000 at 7% per annum. Loan repayments begin six months after graduation. This loan is limited to seniors and other students who are in serious financial need.

Weinberg Student Loan Fund: Mr. and Mrs. J. A. Weinberg, Jr. established this loan fund in 1968 to assist students in the business and nursing schools who have successfully completed one full year of study. Interest accrues at 4% beginning when the loan is made.

Edna Whitley Loan Fund: Mr. and Mrs. George R. Whitley established a revolving loan fund in 1981 for part-time registered-nurse candidates at The American University. The maximum loan is $1,000 for one year only, and candidates must be recommended by the dean of the nursing school. Repayment begins one year after graduation. No interest is charged unless a recipient defaults on the loan; then a 4% charge is added.

Grants

Athletic Grants: The Department of Athletics makes partial- to full-tuition grants based on athletic promise and ability. Students interested in being considered for these renewable grants should call or write the coach of the sport in which they excel.

Residence Hall Adviser: Students selected to serve as hall advisers receive partial tuition remission, a single room, and a monthly stipend for nine months. Interested students should call or write the Office of Residential Life, 4 McDowell Hall, in late fall to begin the application process. Selection is made in the spring for placement the following academic year. Available only to juniors, seniors, and graduate students.

United Methodist: Full-time undergraduate degree students who are the dependent children of ordained United Methodist ministers appointed by a bishop to full-time, active service in the church may apply to have one-half of their tuition remitted. There will be no remission of tuition for ordained United Methodist ministers' children who are attending the university part-time or who attend during the summer sessions. Inquiries about this grant program should be directed to the Center for Campus Ministries in the Abraham S. Kay Spiritual Life Center.

Other Denominations: Full-time undergraduate students who are the dependent children of other ordained ministers or rabbis may apply to receive tuition remission of $200 per year, $100 each for the fall and spring semesters. In order to claim these benefits the minister or rabbi must be active on a full-time basis in the ministry of his or her denomination.

Clergy Grant: Full-time, active clergy may apply to the Campus Ministries office to receive a discount of 20% of the cost of their first three-hour course at the university.

Tuition Exchange

The American University is one of more than 160 colleges and universities that participate in the Tuition Exchange Program for faculty and staff members. Students whose parents are employed by one of the participating institutions may be eligible for a Tuition Exchange Scholarship. Further information may be obtained from the Tuition Exchange Officer of the participating college or by writing the Office of Staff Personnel Services at The American University.

Tuition Remission for Faculty and Staff Members: Full-time faculty and staff members may register without payment of tuition for up to six semester hours during any season of the academic year for a total of six free courses each year. A nonrefundable processing fee of $50.00 for each student is assessed each term.

University Scholarships

The American University Undergraduate Honor Scholarship Program

Freshmen with outstanding academic credentials are selected for Honor Scholarships of varying amounts. Selection is based solely on merit, although additional aid based on financial need may be offered. Students who meet the established criteria are notified shortly after admission. These awards are renewable for a total of eight semesters provided the student makes satisfactory progress toward the degree (measured both through the cumulative grade-point average and the completion of fifteen semester hours each semester, thirty semester hours each academic year).

Undergraduate Institutional Scholarships

General University Scholarship: New and continuing undergraduates with financial need may be considered for varying amounts of tuition remission when they maintain the required minimum cumulative grade-point average and enroll on a full-time basis. This scholarship may be renewed for a total of eight semesters.

Frederick Douglass Scholarship: This university scholarship is granted to full-time undergraduates. Preference is given to minority students who have graduated from a high school in the District of Columbia metropolitan area or other areas and who demonstrate academic achievement and financial need. The award ranges from partial to full tuition. Incoming students must complete an application for admission to a degree program at the university and complete the Frederick Douglass Scholarship Application by February 1, 1987. A completed Financial Aid Form must also be received. For more detailed information students may call or write the director of the Frederick Douglass Program at 885–1175.

The American University Merit Scholarships: The American University sponsors a number of merit scholarships under the National Merit Scholarship Corporation's Merit Scholarship Program. National Merit finalists who indicate to the National Merit Scholarship Corporation that The American University is their first choice university are offered the scholarship. The awards are renewable and amounts vary.

Other Scholarships

Unless specifically noted, the scholarships listed offer varying amounts to be credited toward the recipient's tuition accounts. Not all scholarships listed are awarded every year.

A minimum cumulative grade-point average of 3.00 on a 4.00 scale is required. Many scholarships are awarded on the basis of demonstrated need.

Leon M. Abbot Scholarships: Tuition scholarships for School of International Service students from funds provided by the Scottish Rite Bodies of Freemasonry for the Northern Jurisdiction, U.S.A.

Ernest M. Aiken Fund Scholarships: The Aiken Scholarship was established in 1961 by Mr. Herminia Aiken to assist international students. Candidates should write to the director of the International Student Center for consideration.

Albrittain-Lynch Real Estate Scholarship: This scholarship, funded by an anonymous donor in 1978 to "upgrade professionalism and knowledge in the real estate industry," is administered by the Kogod College of Business Administration.

Walter and Sarah Alexander Scholarship: This scholarship was established in 1927 by the children of Walter and Sarah Alexander. Recipients must be residents of Wisconsin.

Alumni Scholarships: This scholarship was established in 1971 by private donors to aid incoming freshmen with high academic achievement. Recipients may be nominated by American University alumni. Selection is made by representatives of the Alumni Association, the Alumni Office, and the Office of Financial Aid. The scholarship is administered by the Office of Financial Aid.

Hurst R. and Marian P. Anderson Scholarship Fund: This scholarship was funded in 1967 by the Andersons to aid needy students from the Washington, D.C., area.

Baer Memorial Scholarship: This fund was established in 1937 by Emma Baer to aid needy students from Pennsylvania.

Baird Scholarship: Established in 1963 to aid deserving full-time students.

Esther Williamson Ballou Memorial Scholarship: This scholarship was established in 1973 in honor of Esther Ballou by her friends. Ms. Ballou was a distinguished composer, pianist, and teacher at The American University. This scholarship is available to students who are studying music.

Bawsel Memorial Fund Scholarship: This fund was established in 1962 through a grant from the estate of Helen Bawsel for students who demonstrate academic excellence.

The John and Mabel Becker Scholarship: This scholarship is awarded to a male student with an excellent academic record.

Dorothy and Jack Bender Scholarship: This scholarship was endowed in 1976 by Morton Bender, in memory of his

parents. The award is available to a full-time freshman who shows financial need and academic achievement.

Lucius and Grace Bennett Scholarship: This scholarship was established in 1944 by the estate of Grace Bennett to assist a male student from Logan County, Ohio.

Leo M. Bernstein and David I. Estrin Scholarship: This fund was established by Wilma and Stuart Bernstein in honor of their fathers. Students in the Kogod College of Business Administration are eligible.

Borden Parker Bowne Scholarship: This fund was provided by the estate of Ida C. Morrison for students in the philosophy department.

Orton W. Boyd Scholarship: This scholarship was established in 1974 by Katherine Boyd in memory of her husband, a former faculty member of the Kogod College of Business Administration. Selection is made by the Kogod College of Business Administration.

The Britt Memorial Scholarship: This scholarship is awarded to students in the field of records management. Selection is made by the School of Government and Public Administration.

Joseph A. Britton Scholarship: The Britton Scholarship was established in 1982 by the family of Joseph Britton, who graduated in 1938 from the College of Arts and Sciences at The American University. The recipient of this award must exhibit excellence in academics as well as athletics.

Nathan Brodsky Scholarship: Awarded to needy students studying part-time in the General Studies degree program.

L.E. and L.J. Brown Scholarship: Funded in 1947 by the estate of Lucy J. Brown to help students preparing for the ministry.

Butler Scholarship: This scholarship is made available by Abbey Butler, owner of CB Equities. Awards are made annually to a Kogod College of Business Administration freshman who demonstrates outstanding academic merit and financial need. Priority is given to students from the New York City metropolitan area.

C&P Scholarship: The C&P scholarship was established as an annual gift fund in 1978 to assist a high school graduate and resident of the District of Columbia who is enrolled full-time and has financial need.

The Laura Belle Campbell Scholarship: This award was funded in 1955 by the estate of Laura Belle Campbell to aid students preparing for the ministry.

Central High School Alumni Scholarship: This scholarship was funded by Kelly Press, Inc. in 1984 to aid deserving undergraduate students. The scholarship is administered by the Office of Financial Aid.

James Edward Miller Chapman Scholarship: This $1,000 scholarship is available annually to an undergraduate or graduate student who is a resident of the District of Columbia and who is majoring in business or economics. This scholarship was established by the Chapman Education Foundation in 1984 and is administered by the Office of Financial Aid.

Benson T. Chertok Scholarship: This fund is awarded to an outstanding American University science student in honor of Benson T. Chertok for his work in nuclear physics.

Church Business Management Scholarship: Established in 1964 by the Council of Churches of Greater Washington, this scholarship sponsors students taking courses in church management.

George C. and Louise E. Clark: George C. Clark established this scholarship in 1959 for outstanding students with financial need.

The Cochran Memorial Fund: This fund was established in 1956 by the estate of Mary E. Cochran to aid students preparing for the ministry.

The Wade Cooper Scholarship: The estate of Wade Cooper provides funds to award to qualified students.

Cora and John H. Davis Foundation Scholarship: The Davis Foundation provides several scholarships annually to assist needy students. These scholarships were established in 1983.

Joseph Dawson Scholarship: Funded in 1955 by the estate of Margaret Y. Dawson, this scholarship assists children of ministers of the Baltimore Conference of the Methodist Church.

The Charles H. and Iva Dean Scholarship: Started in 1947 by the estate of Iva N. Dean, this scholarship is designated to assist preministerial students.

Rev. Charles and Dora DeLong Scholarship: This award was established in honor of Rev. and Mrs. DeLong by Mr. and Mrs. J. Dennett Guthrie to aid qualified students enrolled in the School of International Service.

The Nancy Devor Scholarship: This scholarship, awarded to School of Government and Public Administration students, is funded by a 1910 endowment from the estate of Nancy Barnes Devor.

The Mary Dunham Scholarship: Awards are presented to qualified students from any college or school of the university. This scholarship was established in 1912 from the estate of Mary Dunham to aid needy students.

Early, Cassidy, and Schilling Scholarship: An honor scholarship is awarded to a qualified freshman with funds provided by the firm of Early, Cassidy, and Schilling.

Michael and Bonnie Forman Scholarship: This scholarship was established in 1984 to aid undergraduate students majoring in communication, visual media, literature, or cinema studies. This scholarship is administered by the Office of Financial Aid.

Charles C. Glover Scholarship: The Kogod College of Business Administration administers this scholarship fund, which recognizes outstanding leadership qualities in a business student.

Hymen Goldman Scholarship Fund: This fund was established in 1968 by the Aaron and Cecile Goldman Foundation to award deserving and needy students from the Washington metropolitan area. Interested students should contact the Kogod College of Business Administration.

Jerrold and Jane Goodman Judaic Studies Scholarship: This award is funded by Yablick Charities and selection is made by the Jewish Studies Program. This annual scholarship is awarded to a student majoring in Jewish Studies who demonstrates academic excellence and financial need.

Everett and Marian Gordon Scholarships: This scholarship fund was established in 1976 by Everett and Marian Gordon to assist Jewish Studies majors in the completion of their senior theses. Selection is made by the Jewish Studies Program.

Arabella Griffin Scholarship: This endowed fund was established in 1920 by the Rev. and Mrs. Charles Griffin for outstanding students from any college or school in the university.

The Ernest Griffith Scholarship: Restricted to students enrolled in the School of International Service.

Guttman Foundation Scholarship: Established by the Stella and Charles Guttman Foundation, this fund aids students with proven academic excellence.

The Annie G. Hall Scholarship: Awarded to students preparing for the ministry, this scholarship is financed through a fund established in 1942 by Annie G. Hall.

The C.E. Hammond Scholarship Fund: Established in 1927 by the estate of C.E. Hammond, this fund assists students preparing for the ministry.

The Bryce Harlow Scholarships: The Bryce Harlow Foundation established these scholarships in 1985 to aid needy, part-time, graduate-level students on congressional-or executive-branch staffs or others studying business-government relations. Selections are made by the Bryce Harlow Scholarship Foundation Committee.

Milton Harris Scholarships: The Office of Financial Aid in cooperation with the Department of Chemistry selects a varying number of deserving undergraduate students annually to receive the Milton Harris Scholarship.

The Haskell Scholarship: The estate of E. Haskell provides funds to aid preministerial students.

Lucy Webb Hayes School of Nursing Scholarships: These scholarships are available to outstanding nursing students in the Lucy Webb Hayes School of Nursing who are recommended by the dean of the School of Nursing.

William Randolph Hearst Minority Scholarship: The Hearst Foundation established an endowment fund in 1986 to support a scholarship program with preference for minority undergraduates. Recipients are chosen based on academic achievement, motivation, and financial need.

Hechinger Foundation Scholarship: The Hechinger Foundation established in 1983 an endowed scholarship fund, the income of which is awarded on an annual basis. First preference is given to black undergraduate students from the District of Columbia who are majoring in business.

Helene M. Herzburn Art Scholarship: Dr. Philip Herzburn established an endowed scholarship fund in 1984 in memory of his wife Helene, a former member of the university's art faculty. The scholarship is awarded to undergraduate students majoring in art.

Ludwig Maximilian Homberger Scholarship: This scholarship was funded in 1982 by the estate of Elizabeth B. Homberger in memory of her husband, a former American University professor. It was established to assist needy German exchange students pursuing study at The American University.

Mary Howe Scholarship: Awarded each year to an undergraduate majoring in music.

The Bruce Hughes Scholarship: This scholarship is awarded to outstanding students through a 1917 gift from the estate of the Rev. Bruce Hughes.

Hyman Scholarship: Established in 1956 by the estate of Emma Hyman, this scholarship aids students preparing for the ministry.

Islamic Studies Scholarship: The Muslim Women's Association established this scholarship in the spring of 1985 to assist an academically outstanding graduate student pursuing Islamic studies. Preference is given to females of Muslim origin. Selections are made by the School of International Service.

Catherine Letts Jones Scholarship: Established in 1964 by Mrs. Jones, this scholarship assists women who are native-born Americans.

The Jack Jurey Memorial Scholarship: This fund was begun in 1970 by Mrs. Jack Jurey. The recipient must be a junior, senior, or graduate student pursuing a career in broadcast journalism. Selections are made through the School of Communication.

The John F. Kennedy Memorial Scholarship: Awarded to an outstanding junior who has made a positive contribution to the campus community.

The Robert F. Kennedy Memorial Scholarship: The fund was established in April of 1969 to provide scholarships to international students.

Adnan Khashoggi Scholarship: The Adnan Khashoggi Scholarship was established in 1983 by Adnan M. Khashoggi. A full-tuition scholarship is awarded annually to an outstanding undergraduate who demonstrates substantial financial need.

The Hugh and Maggie Legge Scholarship: Restricted to students from Kent Island in Queen Anne's County, Maryland.

Catherine Letts Scholarship: Restricted to legal residents of Iowa.

Minnie Letts Scholarship: Restricted to legal residents of Kansas.

Mary and Daniel Loughran Scholarship: This scholarship is awarded to four students from each class who have demonstrated academic excellence, leadership, and service to the university community. The fund was established in 1976 by a grant from the Mary and Daniel Loughran Foundation.

John H. and Nannie C. Lucas Scholarship: Restricted to legal residents of Missouri.

Frank J. Luchs Memorial Scholarship: This scholarship is awarded by the Kogod College of Business Administration

to students pursuing a career in real estate or business administration.

The Madison National Bank Scholarship: This annual gift scholarship fund was set up in 1982 to aid a student in the Kogod College of Business Administration studying commercial banking.

The Ross E. Maris Scholarship: Awards are made to qualified students from any college or school of the university.

Marriott Foundation Scholarship Award: An annual $1,000 award given to a needy minority student from the Washington metropolitan area.

The Dayton McClain Ministerial Scholarship: Awards are made to students preparing for the ministry.

The Samuel J. Moritz Scholarship: Restricted to students enrolled in the School of International Service.

Mu Phi Epsilon Scholarship: Offered by the International Professional Music Sorority, Washington Alumnae Chapter, to an undergraduate woman majoring in music. Selection is made by the music department.

Charlotte W. Newcombe Foundation Scholarship: The Charlotte W. Newcombe Foundation made its first annual gift to The American University in 1981 to fund scholarships for mature second-career women students attending undergraduate or graduate school full-or part-time. Students should have completed half the credits necessary for their degree before applying for the fund.

New York Area Alumni Scholarship: This fund was made possible by alumni from New York to aid needy students.

Charles A. Norwood Memorial Scholarship: Restricted to legal residents of Maryland.

George Olmstead Foundation: This fund was started in 1965 to assist army officers in the School of International Service.

Opdyke Memorial Scholarship: The Opdyke Memorial Scholarship was established in 1931 through the estate of Dorothy Opdyke. Awards are made to women preparing for foreign missionary service.

Miriam Ottenberg Memorial Fund: The generosity of various donors to a fund in memory of Miriam Ottenberg, a former reporter for *The Washington Star*, has made this fund available to needy students. Preference is given to those majoring in print journalism.

The Willis L. Overdeer Fund: Established by the estate of Willis L. Overdeer, this scholarship provides assistance to students from Delaware preparing for the United Methodist ministry.

The Carrie Oves Scholarship: Awards are presented to qualified students from any college or school of the university.

Charles Coolidge Parlin Scholarship: This scholarship was established in memory of Charles Parlin, a past member of the Board of Trustees, through a gift by the Celanese Corporation. Students who demonstrate leadership qualities and academic excellence are considered for this scholarship.

George and Thelma Paraskevaides Foundation Scholarship Fund: Established in the fall of 1985, this scholarship provides assistance to students from Cyprus pursuing undergraduate studies in the humanities and social sciences. Recipients must be in high academic standing and show financial need.

Albert Pike Scholarship: This scholarship is funded by the Scottish Rite of the Southern Jurisdiction and is awarded to students enrolled in the School of International Service who plan to serve in a government position after graduation.

The Pittman Potter Award: Restricted to students in the School of International Service.

Presser Scholarship: Available to an outstanding junior music student chosen by the music faculty, for use during the senior year of study.

The Mary Pugh Scholarship: Annual scholarship for students enrolled in a degree program under the Center for South and Southeast Asian Studies, School of International Service.

The Marion F. Purcell Memorial Scholarship: This scholarship was initiated in 1968 by Francis D. Purcell to honor his wife, who was employed at The American University. This annual scholarship is awarded to a student in the School of International Service who demonstrates compassion and understanding to others.

Quest Systems Scholarship: Two annual scholarships are given to seniors in the top 20% of their class. This computer science scholarship is made possible by gifts from Quest Systems, Inc., located in Bethesda, Maryland.

The Ramsey Memorial Scholarship: This scholarship was established in 1941 by the Ramsey estate "for the education of ministers of the gospel of Jesus Christ."

The Laura Reckman Memorial Scholarship Fund: The Laura Reckman Scholarship was established in 1965 by the donations of Mrs. John S. Meyers and others to provide annual tuition assistance to needy and deserving women students in the School of Nursing. Selection is made by the dean of the School of Nursing.

Reznick, Fedder, and Silverman Scholarship: The accounting firm of Reznick, Fedder, and Silverman established an annual gift scholarship in 1982 for accounting scholarships. This fund is administered by the Kogod College of Business Administration.

The Ethel Ridgaway Scholarship: Presented to qualified students preparing for the ministry.

The Effie Ritchie Scholarship: Presented to qualified students preparing for the ministry.

Helena Rubinstein Scholarship: The Helena Rubinstein Foundation provides two annual, partial-tuition scholarships to academically outstanding women students who possess exceptional leadership qualities. Recipients must demonstrate financial need.

Karim Said Foundation Scholarship: The Karim Said Foundation supports an annual scholarship for two graduate students from the Arab world majoring in computer science

or technology of management who intend to return to their countries. The award may be used for tuition, room and board, and travel.

Savage-Trowbridge Scholarship: This scholarship is available to undergraduate students with outstanding academic qualifications enrolled in the School of International Service.

Albert Pike and Colonel William E. Schooley Scholarships: Tuition scholarships for School of International Service students from funds provided by the Scottish Rites in the Valley of Washington for the Southern Jurisdiction, U.S.A.

Leo Schubert Research Participation Scholarship: Half-tuition honor scholarships are awarded in honor of Dr. Leo Schubert, who was chairman of the chemistry department at the university for twenty-five years. The Summer Research Participation Program that Dr. Schubert initiated has been in progress for twenty years.

The Cathryn Seckler-Hudson Scholarship Fund: This scholarship was established in May 1963 in memory of Dr. Cathryn Seckler-Hudson, former dean of the School of Government and Public Administration. The award is presented to qualified students from any college or school within the university.

Ann Sharp Scholarship: For students who plan to go into Christian educational work.

Mary Smith Scholarship: This scholarship was made available by a gift from her husband, Clark, to honor her years of service in the Office of Financial Aid at The American University.

The Minnie Smith Scholarship: Presented to qualified students from any college or school of the university.

String Scholarships: Available to outstanding undergraduate string players selected by the music faculty.

Solon E. Summerfield Scholarship: In 1982, the Summerfield Foundation established an endowed scholarship fund to aid deserving undergraduate students.

Joel and Leona Tall Scholarship: In honor of their fiftieth wedding anniversary, a scholarship was initiated in the name of Joel and Leona Tall, residents of the District of Columbia. The scholarship is intended to help young writers in the areas of literature and journalism.

Theological Seminary Scholarship: Presented to full-time undergraduates who intend to pursue theological studies at the Wesley Theological Seminary upon graduation from The American University.

The George W. Townsend Scholarship: Presented to qualified students preparing for the ministry.

The Warner Wolf Scholarship: This scholarship was established in 1986 by Warner Wolf, sports commentator for CBS News in New York. The scholarship will be awarded to an incoming freshman from the New York City area majoring in communications who is academically outstanding and in need of financial aid.

Marjorie Fraser Webster Memorial Scholarship: This scholarship was established in 1977 to memorialize the founder and president of Marjorie Webster Junior College, Marjorie F. Webster. The college had a close relationship with The American University while in existence. The scholarship is designed to assist junior or senior women who have financial need and meet the university's academic requirements.

Donald Weiss Family Scholarship: This scholarship was established by the Donald Weiss family in honor of their son, Peter, to be awarded to a disabled student.

Women's Guild of The American University Scholarship: The Women's Guild of The American University provides a scholarship to a senior female student in the College of Arts and Sciences. The student must have attended The American University all four years and must show excellence in academics.

The George Woods Scholarship: Awards are made to qualified students from any college or school of the university.

Departmental Scholarships

Ella F. Helminge Fellowship: This fund, established in 1964 by the estate of Ella Helminge, awards a fellowship to a deserving biology student selected by the Department of Biology.

Carl H. Madden Scholarship: This fund was set up in 1978 to assist students in a Master of Business Administration program specializing in the area of business and government relations.

Charles E. Merrill Scholarship: This scholarship fund, set up in 1973 by a gift from the Merrill Trust, provides a fellowship to a business administration student.

David W. Wainhouse Scholarship: This scholarship is awarded to an outstanding graduate string player selected by the music faculty.

Robert E. Wilson Scholarship: This scholarship was established in 1965 by Mrs. Wilson in honor of her husband. Selection is made by the Kogod College of Business Administration of an outstanding Master of Business Administration student pursuing a Ph.D. in Business Administration.

University Graduate Scholarships and Grants

The American University maintains a comprehensive program of fellowships, scholarships, grants, and assistantships to support degree-seeking graduate students in programs of full-time study. Academic merit is the chief criterion used in the selection of award recipients.

Graduate Assistantships and Graduate Scholarships: A student interested in a graduate assistantship or scholarship should call or write his or her academic department for information regarding availability of teaching positions and tuition-remission funds. Graduate assistantships provide tuition remission and a taxable stipend for service performed for teaching or teaching-support services. Graduate scholarships provide tuition remission and require no service commitment.

Dissertation Fellowships: These awards provide a stipend and up to twelve credit hours of tuition remission for dissertation seminar credits only. Interested students should have

their dissertation proposals approved by their teaching-unit committees. Fellowship applications are available in the teaching units and must be submitted to the teaching unit by March 1. Awards are announced about April 5.

Hurst Fellowships: This stipend of $2,000 is available only to entering doctoral students of high academic standing and is not based on financial need. Nominations are made by the teaching unit to Graduate Honor Awards Committee. To be eligible the student must have been designated to be offered a teaching assistantship by the teaching unit.

Hall of Nations Scholarship: Outstanding international students may apply for this award of tuition remission for up to eighteen semester hours for each academic year.

Massey Foundation Scholarship: Canadian citizens may apply for this award which provides a stipend of up to $3,000 each year.

Special Opportunity Grants: Special Opportunity Grants are awarded to American-born minority students (Black American, Hispanic American, American Indian, Alaskan Native American, Asian or Pacific Islander American) for up to twenty-four semester hours of tuition remission each year or a stipend for service commitment or both.

United Methodist Graduate Scholarship: The Board of Higher Education and Ministry of the United Methodist Church originated an annual gift scholarship fund in 1982 for full-and part-time graduate and law students. The eligibility requirements include membership in the United Methodist Church, demonstration of financial need and strong academic standing. Interested students must file a Financial Aid Form and a United Methodist Graduate Scholarship Application form available from their academic units.

Washington College of Law Scholarships and Grants

Special law-school scholarships, established by friends of the law school and the university, provide tuition assistance for full-time students. For more information, call 885–2668.

Employment Opportunities

The university Career Center provides assistance to students interested in obtaining employment to defray a portion of their college expenses.

On-Campus Part-Time and Temporary Employment: There are on-campus jobs available at the university. Students who have been awarded federal financial aid must obtain the approval of the Office of Financial Aid before beginning work.

Off-Campus Part-Time and Temporary Employment: A variety of part-time and temporary positions are available in the nearby area and in downtown Washington. Hourly wages start at $3.35 but go up to $7.00 for specialized work.

Veterans' Benefits

The American University's degree programs are approved by the Educational Institution Licensure Commission, the state approving agency for the District of Columbia for enrollment of veterans (and eligible dependents of deceased or disabled veterans) for educational benefits under the various federal laws relating to veterans.

Forms and information may be requested from the Office of the Registrar at (202) 885–2235.

New Students

New students entering The American University must file a Veterans Application for VA Educational Benefits (22-1990) with a copy of DD-214 through the Office of the Registrar. Enrollment certification is then sent to the Veterans Administration by the Office of the Registrar to initiate benefits for the enrollment period.

Service men and women wishing to receive VA benefits for the first time must present the Serviceman's Application for VA Educational Benefits (22-1990). This form must be signed by the Education Office and the Commanding Officer.

Transfer students who have received VA educational benefits at another college or place of training and wish to receive VA benefits for the first time at The American University should file a Request for Change of Program or Place of Training (21-1995) through the Office of the Registrar. This form will then be sent to the VA's regional office in Washington, D.C. with the Enrollment Certification (22-1999) completed by the university.

Continuing Students

Continuing students need only file The American University VA claim card for educational benefits each semester with the Office of the Registrar. All changes in registration (adds, drops, and withdrawals) must be reported to the Office of the Registrar, Veterans' Counselor.

Payment and Financial Responsibility

With the exception of disabled veterans who are training under Vocational Rehabilitation, all beneficiaries of educational benefits from the VA are personally responsible for the payment of their bills to the university. These persons should come to the university financially prepared to pay tuition and fees. The VA checks for educational benefits are sent directly to the student or address designated on The American University claim card. Students who wish to receive advance payment must file an advance payment request form. Students who request and are granted advance payment pick up only the first check issued through the Office of the Registrar, Veterans' Counselor. Thereafter, the checks are sent directly to the student or address on file with the VA. It takes six to eight weeks from the time of filing a veterans semester claim card with the Office of the Registrar before the first check arrives. Veterans whose claim cards are completely filled in will have their claims processed first. Incomplete claim cards (e.g., no file/claim number) will be processed last.

The Veterans Administration interprets "completion of credits" differently from the university, and this difference

should be noted. VA benefits are awarded on the basis of the expected completion of a certain number of credits each semester as stated on the Veteran's Certification Form. Completion is defined to mean grades of A, B, C, D, F, P, or ZF. However, veterans who drop below the anticipated level by receiving a W, L, or N will be in overpayment status, according to the Veterans Administration. Future benefits will be reduced for later periods of enrollment or, should no further enrollment occur, students would have to refund money directly to the Veterans Administration. The VA directs the university to notify them of a change in status for students during or immediately after the end of the month in which the change occurs. Thus, when the Office of the Registrar learns in the third or fourth week of May that a veteran has reduced his or her credit hours of enrollment because of withdrawals, audits, or no grade reported, it notifies the VA immediately after the end of May (in early June). Under mitigating circumstances exceptions to the above policies may be made through the Veterans Administration Regional Office.

The Office of the Registrar is located on the second floor of the Asbury Building, and is open from 9:00 a.m. to 5:00 p.m., Monday through Friday.

While every attempt has been made to provide accurate and complete information, changes in federal regulations and university policy may occur at any time without notice, and students should use this material as a general guide.

Moving in

Student Life and Services

Division of Student Life

Central Office

The Division of Student Life is committed to enhancing and supporting every student's academic experience at The American University. For the traditional undergraduate student, the division offers a comprehensive living and learning environment to enable residents to realize their full academic, cultural, and social potential. The division's staff believes in lifelong learning and is equally committed to offering services for adult, commuter, full-time, part-time, graduate, and nondegree students.

Developmental services offered through the dean of students office, campus ministries, intercultural programs, international faculty and student services, psychological and learning services, residential life, student activities, and commuter services challenge individual students to identify, strengthen, and use their talents to cope with life, develop leadership skills, and make a contribution to society as increasingly creative, responsible, mature persons. To sustain and support the educational experience of all students, the division meets basic needs by providing orientation programs; health services; child care; campus, city, and calendar information; off-campus housing listings; personal counseling for international and minority students; special services for the physically handicapped and learning disabled. In addition, outreach to and liaison with academic and administrative units are important components of student life services.

Recognizing The American University's location in the capital of the nation, its exciting urban activities, and its national and international constituencies, the division strongly emphasizes and makes use of the university's unique intercultural, educational, and social resources to foster a sense of community among students, faculty, and staff. Through the services it offers, the division seeks to strengthen identity with the institution and improve the quality of life on campus, thus performing a critical role in retaining The American University's diverse and dynamic student body through achievement of academic goals and transformation into successful alumni.

The vice provost for student life and the assistant provost/dean of students, in the central office, Mary Graydon Center, room 200, oversee the activities of the division. The Conduct Council, Parents' Weekend, Student Achievement Awards and Honors, student health insurance policy, dining services liaison, student exit interviews, and special services for physically handicapped students are coordinated through the office of the assistant provost/dean of students.

Other services of the division are provided by the Office for Intercultural Programs, the Center for Psychological and Learning Services, International Student and Faculty Services, the Office of Student Activities, the Center for Campus Ministries, the Child Development Center, the Residential Life Office, and the Student Health Center.

In addition to the central office, the first four service departments of the Division of Student Life listed above are housed in Mary Graydon Center, along with the university dining facilities, the commuter student lounge, a twenty-four-hour automatic teller operated by a local bank, the Student Confederation and member organizations, the Graduate Student Council, and various other administrative and academic units.

The Information Center, located off the lobby of Mary Graydon Center, is a resource center for the American University community. Services include information about on- and off-campus activities, Metro bus and rail and American University shuttle schedules, student services information, on-and off-campus student directories, university department telephone numbers and office hours, academic information, off-campus housing listings, campus locker assignments, and consumer service resources. The center is open seven days a week, and its staff provides answers or referrals to appropriate offices for assistance.

Office of Intercultural Programs

One of The American University's distinctive educational characteristics is its cosmopolitan and multicultural campus population. Students, faculty, and staff are drawn from nations around the world and from the various ethnic and racial cultures that make up our national population. In order to take educational and social advantage of this rich mixture, the director of intercultural programs is responsible for promoting mutual understanding across cultural lines through events of an intercultural and international nature, and counseling persons and groups regarding issues that may arise from a lack of understanding.

The executive director also chairs the Administrative Coordinating Council for International Student Services and Programs. The primary purpose of the council is to coordi-

nate and improve support services and programs that are sensitive to the needs of international students as well as the administrative requirements and resources of the university.

This office is located in Mary Graydon Center, room 220.

Office of Student Activities and Commuter Affairs

The student activities office is the primary resource center for clubs and organizations and is responsible for oversight of all student-sponsored programs. This office initiates, administers, and interprets university policies and procedures affecting student groups and assists them in seeking university recognition; offers training and support to student leaders and advisers; provides direction in the handling of fiscal affairs; advises students in their planning and programming efforts; and develops appropriate training and resource materials.

Members of the staff serve as primary advisers to the Student Confederation, the Graduate Student Council, the Student Union Board, the Greek Council, and the Confederation Media Commission. Through the advisement function, the staff helps ensure the implementation of a cocurricular program that is well-rounded and supportive of the educational mission of the university. Staff members of the Student Activities Office coordinate Fall and Spring New Student Orientation, the Summer Orientation Registration Conference, and the Graduate Orientation Housing Conference. They oversee off-campus housing services, the Information Center, and commuting-student services.

The office is located in Mary Graydon Center, room 216.

Off-Campus Housing

New students may live on or off campus. The Information Center, located on the first floor of Mary Graydon Center, offers an Off-Campus Guide, a roommate reference file, apartment directories, landlord and tenant information, mass transit schedules, off-campus housing listings, and other resources. The center is open Monday through Friday, from 9:00 a.m. to 9:00 p.m., Saturday 10:00 a.m. to 7:00 p.m., and Sunday from noon to 6:00 p.m. A special Off-Campus Housing Clinic is held during the two weeks preceeding and two weeks following the beginning of each semester.

Center for Campus Ministries

The Abraham S. Kay Spiritual Life Center serves the university community as a place of worship, celebration, study, and sharing the life of faith. The center houses a main chapel, small prayer rooms, chaplains' offices, lounge, kitchen, and meeting rooms. Through the Center for Campus Ministries, housed on the lower level of Kay Center, chaplains of several faith traditions provide a broad ministry and a variety of religious services to students, faculty, and staff.

Protestant, Catholic, Jewish, and Muslim services are scheduled weekly in the center. Mass is celebrated daily during the week, and Protestant midweek worship is regularly conducted. Worship is generally contemporary and incorporates issues pertinent to the life of the campus and the world. In addition to the services mentioned, both Christian Science and Hindu worship and study is conducted, and the Buddhist chaplain leads weekly meditation.

The Center for Campus Ministries chaplains and staff envision their ministry as strengthening the university's general quality of life as well as increasing spiritual awareness and religious practice. In addition to the traditional services such as personal counseling, religious education, prayer groups, and worship leadership, the chaplains coordinate interfaith programs for the university. They work with other campus groups and community organizations to assist students, faculty, and staff in responding to the needs of the university, the city, and the world, and to increase campus sensitivity to ethical issues related to the academic environment and the institution's purpose.

There is a welcoming atmosphere at the Center for Campus Ministries, where students feel free to come and talk with one another or with a chaplain about problems, plans, or ideas. The center provides a unique opportunity to work in a democratic way with others of varied religious backgrounds. To be involved here is to greatly enrich one's university experience.

Center for Psychological and Learning Services

The Center for Psychological and Learning Services is located in Mary Graydon Center, room 201, (202) 885–3360. Following are brief descriptions of each component.

Psychological Services

Psychological Services offers opportunities for help with one's personal concerns. Students receive assistance for issues ranging from minor, ordinary ones to very serious problems. Students consult the service for help with anxiety, stress, and depression, as well as simply to learn more about themselves and relationships. Individual and group counseling is offered. The staff is composed of clinical and counseling psychologists and social workers who are experienced in working with college students. All discussions are confidential, in conformity with federal and local law.

Initial appointments, referral services, and crisis intervention are available to all students, faculty, and staff. In addition, ongoing psychological counseling is available to full-time students as deemed appropriate by the center.

Learning Services

Learning Services offers individual and group assistance for improving learning skills important to academic survival in college. Programs and sessions with a counselor are available in areas such as writing skills, grammar, vocabulary, time management, the English competency examination, speed reading, note-taking, study skills, examination skills, and reading comprehension.

Further, learning-disabled students may receive academic support from the Learning Services. More specific help is available to those students admitted to the Learning Services Program for Learning Disabled Students. (Consult Learning Services for more information on this program.)

The center also provides referral to qualified tutors (who charge a reasonable fee) for many courses taught at The American University.

International Student and Faculty Services

This office provides specialized guidance and services designed to meet the needs of international students and serves as their institutional representative. These services include the issuance of United States immigration documents; assistance with financial, personal, social, academic, and visa matters; liaison with foreign government sponsors and U.S. sponsoring agencies; and referral. The office handles all visa transactions for visiting foreign faculty and the university's Private Exchange Visitors Program.

The director administers the two legally authorized exchange programs through which all F-1 and J-1 visa foreign students enter and maintain legal status at the university. The director also serves as agent for the university in filing petitions to obtain Labor Certification and Permanent Resident status for non–U.S. citizens employed in permanent faculty and staff positions.

The director of the office also acts as the American Indian adviser providing guidance and liaison in personal, financial, social, academic, and vocational matters. Other services include assistance in using local, national, and tribal organizations as sources of financial assistance and academic credit internships. Internships with local Indian communities are also arranged, in the interest of both American Indian and non-Indian students.

This office is located in Mary Graydon Center, room 221.

Office of Residential Life

This office provides a broad base of support to students residing in the university's residence halls. A staff of resident advisers (RAs) are placed on each floor to offer students initial advising, counseling, and referral services. The RAs are upperclassmen who have successfully completed a rigorous screening and selection process. They are trained in listening and advising skills. They actively encourage students on the floor to get to know each other through participation in floor social gatherings, academic programs, and cultural events both on and off campus. Each residence hall is supervised by a full-time, professional resident director. This person is responsible for the RA staff, discipline, and any serious counseling or crisis situations. The resident director also coordinates communication of requests and problems to the physical plant and housekeeping supervisors.

Special academic and cultural programming takes place in the residence halls. An intercultural residence hall houses a mix of American and foreign students and plans a variety of cultural events. The Living-Learning Center is available for selected students. There is a focus on wellness and health fitness within one hall and a focus on community action and volunteerism in another hall. For assignment information on these halls and for information on other opportunities, consult the Office of Housing Management. All on-campus residence halls house both men and women with a mix of freshmen and upperclassmen in each building. Single-sex floors are available on request.

Space in university residence halls is offered first to full-time undergraduate students as available. Limited space may be provided for graduate, law, and part-time undergraduate students if it is available. Students in these categories should consult the Office of Housing Management for assignment information. The housing agreement is binding for a full academic year (fall and spring semesters). The room rates are listed in the "Tuition, Expenses, and Financial Aid" chapter of this publication. Health insurance coverage is a prerequisite of dormitory residence.

Housing information and application cards for entering students are included in the admissions packet. Returning students are given the opportunity during the spring semester to apply for space. A room deposit is collected each year when availability of space for the student is confirmed. This deposit is then applied to the student's spring account.

Rooms contain basic furnishings. Electrical equipment permitted in dormitory rooms is limited to low-wattage appliances. Limited kitchen facilities are available on each floor.

Resident students must observe all university regulations, including those specified in the housing agreement that they (and their parents, if students are under age 18) sign. They are held responsible for damage to their rooms and floors during their period of occupancy and are billed, either individually or with roommates or hallmates, for damages.

Refunds for students withdrawing from housing are made in accordance with the schedule contained in the housing agreement.

The offices of Residential Life and Housing Management are located in McDowell Hall, room 4.

Student Health

Student Health Center

The Student Health Center, located on the first floor of Nebraska Hall, provides primary medical care, allergy injections, gynecological services, and first aid for all full-time resident and Washington Semester students, provided that a physician's report documenting results of a physical examination is on file in the Health Center. Full-time nonresident students who meet this requirement may also receive services after paying a health fee of $35.00 a semester at the Student Health Center.

Students are seen by appointment except in cases of emergency. The Health Center does not provide in-patient services. Complex problems are referred to area specialists. In the event that the Health Center is closed, students are advised to consult their resident adviser for assistance in using local emergency rooms or to call the Security Office. The cost of these services is the responsibility of the student.

For more information call the Student Health Center at (202) 885–3380.

Student Health Insurance Plan

A comprehensive accident and sickness insurance program is available to full-time students at The American University. Detailed information concerning this plan is available in the Student Health Center, Nebraska Hall, and the Student Life Central Office, Mary Graydon Center, room 200. Nonresident students (other than foreign students holding F-1 and J-1 visas) who enroll themselves individually, or with spouses or dependent children or both, make their payment directly to the insurance company. Annual renewal is not automatic and students are responsible for re-enrollment before the fall or spring deadlines. Resident students are required to carry some form of health insurance and will be enrolled in and billed for insurance under the university student plan unless they provide evidence of comparable coverage when they sign the lease.

Health insurance is mandatory for all full-time international students with F-1 and J-1 visas. Students may enroll in an insurance plan of their choice, provided coverage is at least equal to that offered by the plan available through the university. Such students must complete a waiver form available in the Student Health Center, Nebraska Hall, by October 1, 1987, or for those entering spring semester, by February 1, 1988. Students who elect not to purchase an insurance plan of their choice and who do not submit waiver forms will be required to enroll in the group health program available through the university, and these students will be billed for the appropriate premium.

Child Development Center

The American University offers an innovative educational program for parents and students in the university community. The Child Development Center in Hughes Hall provides a stimulating atmosphere for children between two and a half and five years old. Children in the center are guided through programs of social interaction, self-awareness, intellectual stimulation, and muscle control and coordination. The professional staff of the center is augmented by work-study students and student interns from various departments who wish to develop their understanding of young children.

Children are enrolled for a semester in a half-day or full-day program.

Office of Minority Affairs

The Office of Minority Affairs assists all minority students entering the university by providing counseling and tutoring services to encourage academic success. The cultural interests of the minority community are served through a series of lectures, seminars, historical tours, receptions, and festive events. The Office of Minority Affairs houses the Minority Resource Center which provides scholarship and career information for undergraduate and graduate students. The Frederick Douglass Scholarship Program, the Community Studies Program, and the High School College Internship Program (HI/SCIP) are housed within this unit.

Student Organizations

Student Confederation

The Student Confederation (S.C.) is the undergraduate student government representing the academic, political, and social interests of the student body. The General Assembly, the legislative branch of the S.C., holds bimonthly meetings to establish policies governing S.C. operations and approve the budget which funds most student clubs and organizations.

The Student Union Board (S.U.B.) is the programming arm of the S.C. sponsoring events including movies, concerts, and coffee houses.

The Confederation Media Commission (C.M.C.) coordinates all S.C.-funded media and provides oversight to student publications such as *The Eagle* newspaper, the literary magazine, and *The Talon* yearbook, and broadcast media such as radio station WVAU, WAVE-TV, and a photopool.

Graduate Student Council

The Graduate Student Council (G.S.C.) serves as the advocate for graduate students at The American University, with representation on policy-making bodies including academic policy boards. The council, composed of representatives from the schools and departments of the university, also sponsors social and educational activities and plays a major role in the orientation program for new graduate students.

Residence Hall Association

The Residence Hall Association (R.H.A.) is a student government representing all resident students. A major responsibility is programming in each hall as well as campus-wide activities. It also makes recommendations to the Office of Residential Life and Office of Housing Management concerning the operation and management of the residence hall system.

Intercultural Organizations

All international students are automatically members of the International Students' Association (ISA). ISA's goal is to help foreign students adjust to their new social and academic environment and to increase understanding and cooperation among foreign and American students. Students from geographic regions or individual countries also form clubs in order to share common interests or pursue common goals. In addition the foreign-student community publishes its own biweekly newspaper, "The International Voice," as part of the campus newspaper, *The Eagle*.

OASATAU (the Organization of African and Afro-American Students at The American University) serves as the black student union. Its primary goal is to provide a supportive cultural, social, and academic atmosphere for the black student community. Other traditional black student organizations include NAACP (National Association for the Advancement of Colored People), the Black Law Student Association (BLSA), and the Gospel Choir. In addition the black student community publishes its own biweekly newspaper, "Uhuru," as part of the campus student newspaper, *The Eagle*.

The purpose of the Jewish Students Association (J.S.A.) is to enrich Jewish life on campus. It sponsors many events in collaboration with Hillel.

Lectures

Several student organizations sponsor lectures by ambassadors, members of Congress, journalists, activists, and representatives of political parties. NOW president Eleanor Smeal, former British prime minister Harold Wilson, Mayor Andrew Young, Governor Bruce Babbitt, and G. Gordon Liddy have been recent speakers sponsored by campus groups such as the Kennedy Political Union (KPU),

OASATAU, the International Students' Association, Pan Ethnon, Foreign Affairs International, and the Graduate Student Council.

Professional, Scholarly, and Honorary Societies

At The American University, students can strive for election to both professional and service honoraries. The American University chapter of the national honor society for scholarship, Phi Kappa Phi, was chartered in 1964. *Who's Who in American Universities and Colleges* recognizes outstanding junior and senior students. Mortar Board is the national senior honor society for student leadership, scholarship, and service. Omicron Delta Kappa honors junior and senior students in five major phases of campus life: social service and religious activities; athletics; campus government; journalism, speech, and mass media; and creative and performing arts. In addition to a national freshman honor society, Alpha Lambda Delta, professional honoraries are established in the fields of chemistry, premedicine, prelaw, music, economics, nursing, communication, criminal justice, journalism, history, education, public affairs and administration, business, international service, psychology, sociology, and political science.

Music

Musical groups on campus include the American University Chorale, the American University Orchestra, the American University Singers, and the American University Gospel Choir. The American University Singers schedule concert tours in addition to their campus programs. Qualified students may register in most of these musical organizations for credit. In addition, the Tokyo String Quartet and the Washington Music Ensemble are performing groups in residence.

Drama and Dance

The American University Players present classic and contemporary productions throughout the year and also schedule play readings, one-act plays, and dramatic television productions. The Department of Performing Arts sponsors annual fall and spring dance concerts and open workshops with guest artists in residence.

Other Organizations

There are political organizations on campus that encourage participation in local and national political campaigns and sponsor activities by members of Congress, journalists, and others who are active in the political arena, such as College Democrats and Young Republicans. Other groups include A.U. Gay Community, the Women's Forum, United Campus to Prevent Nuclear War, Environmental Conservation Organization, Hunger Action Group, Boost Alcohol Awareness on Campus, and Alcoholics Anonymous. The A.U. Life Club provides health and physical fitness programs.

Student Media

A number of opportunities exist for students interested in participating in campus media. *The Eagle* is the weekly student newspaper of The American University. The university yearbook is *The Talon*. The university public radio station, WAMU-FM, broadcasts twenty-four hours a day and the student-operated radio station WVAU broadcasts during prime time on campus. The newest media outlet is WAVE-TV, the student-run television station on campus.

Greek Organizations

Thirteen sororities and fraternities provide service, promote scholarship, encourage leadership, and create an atmosphere for active social involvement. The national sorority chapters on campus are: Alpha Chi Omega, Alpha Kappa Alpha, Delta Gamma, Delta Sigma Theta, Phi Mu, and Phi Sigma Sigma. The fraternities include: Alpha Epsilon Pi, Alpha Phi Alpha, Alpha Sigma Phi, Alpha Tau Omega, Kappa Alpha Psi, Phi Sigma Kappa, and Zeta Beta Tau. The Interfraternity Council, which governs fraternities, regulates rush activities, and participates in fraternities' judicial decisions. The governing body for sororities, the Panhellenic Council, oversees the rush program, sponsors social opportunities, and represents sorority concerns. The Greek Council was established as a governing body of all Greek organizations. It promotes better communication among all of the chapters and promotes Greek life on campus. The twelve chapters participate together in programs such as Orientation and Parents Weekend. Order of Omega is the Greek honor society.

Athletic Organizations

There is intercollegiate competition for men in basketball, cross-country, golf, soccer, swimming, tennis, and wrestling. There is intercollegiate competition for women in basketball, cross-country, field hockey, swimming, tennis, and volleyball. The American University is a member of the National Collegiate Athletic Association (NCAA-Division I), Eastern Collegiate Athletic Association (ECAC), Colonial Athletic Association (CAA), and South Atlantic Field Hockey/Lacrosse Conference (SAFHLC).

Intramural sports for men and women include basketball, touch and flag football, softball, soccer, table tennis, tennis, and volleyball. Club sports are determined by students. Interest and demand determine current activities. Other recreational opportunities include swimming, weight lifting, tennis, track, and exercising machines.

Services

Banking Facilities

A local bank operates twenty-four-hour automatic tellers in Clark Hall and Mary Graydon Center. Several other banks are located within walking distance of the campus.

Office of Student Accounts

Following admission to the university, students handle all financial transactions with the university through the Office of Student Accounts located in Asbury Building.

Campus Store

The Campus Store, located in Anderson Hall lower level, carries all required textbooks, a large selection of other

books, all necessary paper supplies and stationery, college sportswear, college jewelry and gifts, magazines, newspapers, film, and toiletry items. A travel service is housed in the Campus Store.

Dining Services

The contract dining room, University Club dining room, cafeteria, snack bar, tavern, carry-out, and some food-vending machines are located in Mary Graydon Center. Various seven-day and five-day meal plan options are offered on a semester basis.

Mail Service

The university maintains a United States Post Office contract substation on the campus. Mail boxes are available at the Post Office for international students who live off campus. Mail boxes in each dormitory are furnished to all resident students.

Transportation

The Office of Security, Parking, and Traffic operates a free shuttle bus service transporting students, faculty and staff to off-campus residence halls, Tenley Campus, and the nearby subway station.

All commuting students who live in nonuniversity housing, and all resident students (except Nebraska Hall residents) who are sophomores or above are allowed to have motor vehicles on campus. Students living in fraternity houses on campus and on the Tenley Campus are considered resident students for parking purposes. These vehicles must be registered with the Parking and Traffic Office in Clark Hall and must display a valid parking permit. Drivers on campus must observe the university's parking and speed-limit regulations, copies of which are available from the Parking and Traffic Office.

National Center for Health Fitness

The National Center for Health Fitness, located in Nebraska Hall, provides physiological and health counseling for members of the university community.

AU shuttle service helps students take full advantage of the resources of Washington, D.C.

General Academic Regulations and Information

As part of providing a high-quality education, the university continuously examines its academic requirements. As a result, the information contained in this and other sections of this publication may be revised. Students should consult their deans or department chairs for any new requirements that may affect their individual programs of study.

General Academic Information

Academic Advising

The American University considers academic advising an essential element of the educational process. The various advising resources at the university are available to help students define the choices they must make and to give any needed guidance. Students with academic concerns may seek assistance from course professors, faculty and professional advisers, peer advisers, department chairs, deans, and various student support services throughout the university.

The university recognizes differing advising needs of students and provides opportunities to ensure that these needs are met. Some students prefer close supervision and support from advisers through each step in the educational process. Other students prefer to seek guidance on a more informal, intermittent basis.

The American University requires adviser-student conferences at least once a semester. The student, however, bears the ultimate responsibility for selecting courses, meeting course prerequisites, and adhering to policies and procedures. An adviser assists the student in order to ensure a well-balanced education and interprets university policies and procedures.

It is the student's responsibility to be aware of the many advising resources of the university and to use these resources as needs arise. The university maintains responsibility for ensuring that these resources maintain high standards for serving students effectively and efficiently and that needs are being met.

See also: Career Center, Center for Psychological and Learning Services, and International Student Center in this publication.

Grading System

Calculated in the Grade-Point Average

Grade	Quality Points
A (Excellent)	4.0
A−	3.7
B+	3.3
B (Very Good)	3.0
B−	2.7
C+	2.3
C (Satisfactory)	2.0
C−	1.7
D	1.0
F	0
X (administrative penalty)*	0

*The X grade is assigned by the instructor in lieu of an F when a student did not attend the class, rendering an assessment of academic performance impossible.

Not Calculated in the Grade-Point Average

I=incomplete
IP=in progress (for a course for which a grade is not necessarily due at the end of the semester)
L=auditor (no credit)
N=no grade reported by instructor or invalid grade
P=pass
W=withdrawal
ZF=fail on pass-fail option
ZX=fail (administrative penalty) on pass-fail option

Grade-Point Average

The cumulative grade-point average includes only those courses taken for conventional grades (A through F). Courses taken pass-fail are not included in the grade-point average, nor are grades of incomplete (I). See also "Repetition of Courses" below.

Credit accepted for transfer from another institution is included in the total amount of credit applicable to degree requirements, but grades earned in such courses are not recorded on the permanent record at The American University

and are not used in computing the cumulative grade-point average needed for graduation.

For calculation of the graduate cumulative grade-point average, see "Graduate Study" in this publication.

Pass-Fail

For undergraduate students, the grade of P indicates a quality of performance no less than C (2.00) on a conventional grading scale. For graduate students, the grade of P indicates performance equivalent to a B (3.00) or better on a conventional grading scale. Performance below these levels is reported as ZF.

Neither the P grade nor the ZF or ZX grade is calculated in the grade-point average. Degree credit, however, is received with the grade of P.

Incomplete Grades

At the discretion of the faculty member, the grade of I (Incomplete) may be given to a student who, because of extenuating circumstances, is unable to complete the course during a semester. The grade of "Incomplete" may be given only if the student is receiving a passing grade for the course work completed. Arrangements for a grade of "Incomplete" must be made in advance of the final examination. An Incomplete Contract form detailing what work is to be submitted, the deadlines for such submission, and a grade to be substituted for the I should submission deadlines not be met is signed by both student and faculty member. The submission deadline should not extend beyond the last day of the following semester (not counting summer).

No grade of I will be recognized by the Office of the Registrar without the proper documentation. On completion of the requirements of the course within the time specified on the Incomplete Contract form, the grade of I must be resolved to a grade of A through F, P, or ZF. Unless resolved by the faculty member to one of these grades, the substitute grade specified on the Incomplete Contract form will be inserted as a final grade in place of the I by the Office of the Registrar. A W may not be given to remove a grade of I. An I may not stand as a permanent grade. (For regulations pertaining to independent reading courses and independent study projects, see the appropriate section in this publication.)

Communication of Grades to Students

Grade reports are mailed to students as soon as possible after the end of an academic session. At the time the first grade reports are issued, an N is substituted for each grade that has not yet been received. Supplemental grade reports are prepared as changes occur and such changes are reported weekly to students and deans by the Office of the Registrar. Many instructors release grade results to their students in various ways as soon as they have completed their evaluation.

Changes in Grades

Once reported, a grade may not be changed except to remove a grade of incomplete as stated above, or to correct a grade recorded in error. To remove a grade recorded incorrectly, the faculty member must certify in writing to the Office of the Registrar that an error was made.

Repetition of Courses

Whenever a course is repeated, each attempt, including the final grade, is entered separately on the permanent academic record. Unless specifically indicated to the contrary, however, only one successful attempt of a course is counted toward fulfillment of graduation credit requirements. With the exception of the Freshman Forgiveness rule (see "Undergraduate Study" in this publication), the grades received in all attempts are considered in the computation of the undergraduate cumulative grade-point average. For calculation of the graduate cumulative grade-point average, see "Graduate Study" in this publication.

Student Records

A permanent record, reflecting academic achievement, is maintained in the Office of the Registrar for each student who registers at the university. Information needed for the continuing evaluation of the progress of a student, including grades earned, is sent by the University Registrar to the dean of the student's college or school as it becomes available. For more information regarding student records, see "Confidentiality of Student Records" in this publication.

Transcripts

Students may obtain transcripts of their academic records from the Office of the Registrar. There is a $2 fee for each official transcript.

Transcripts will be released only on the signed request or release of the student concerned.

The university will not issue a transcript that reflects only a part of the student's record, nor will it make copies of transcripts on file from other colleges and universities.

Certification of Enrollment

The Office of the Registrar supplies, on request of a currently enrolled student, certification of certain academic data concerning the records and status of the student. These certifications are used for Department of Education and scholarship forms, employment applications, and so forth. They are not to be confused with transcripts of the student's permanent academic record.

Name Change

The student's name entered on the permanent record may be changed if the name has been legally changed and if the change is supported by court order. Changes of name on the permanent records will be made for currently enrolled students only. Diplomas may not be changed or reissued.

Graduation

The university confers degrees and issues diplomas at the end of the fall, spring, and summer terms. Formal commencement ceremonies are held in January for fall degree candidates and degree recipients from the preceding summer, and in May for spring degree candidates.

Candidates for degrees are to file an Application for Graduation form in the degree clearance section of the Of-

fice of the Registrar no later than the date listed below for their particular graduation:

Graduation	Application
December (Fall)	June 2
May (Spring)	September 15
August (Summer)	April 1

Students pay a graduation fee of $25 at the time they first file for degree clearance. There is no fee for reapplication.

Only after application for graduation has been made can the Office of the Registrar begin processing the necessary information for final certification of graduation. Students who fail to complete all degree requirements by the end of the term for which they applied to graduate must reapply in order to graduate later.

Graduate students are advised also to consult the more detailed information about comprehensive examinations, thesis, and dissertation deadlines, etc., available from academic offices.

Conferral of Degrees and Commencement

Only students who successfully complete degree requirements by the end of the term for which they have applied (or reapplied) to graduate are certified for conferral of a degree. In witness of the degree conferred, the permanent records of the graduates are appropriately noted with a statement of graduation and their diplomas are released.

All candidates for degrees whose participation is approved by their dean are invited to participate in commencement ceremonies. For fall and spring degree candidates, final certification for the degree is not made until after the ceremonies have been held. Participation in a commencement ceremony does not itself constitute conferral of a degree, nor does it imply an obligation on the part of the university to award a degree before all requirements have been met and certified.

Registration

Registration is conducted on the dates specified in the academic calendar published in detail in the *Schedule of Classes*. Students who register during advance registration are billed later. During direct registration students pay when they register. In order to register, a student must (1) be admitted to the university or be approved for enrollment for nondegree study; (2) clear any balances on the student account; (3) secure approval of a program of study from an academic adviser; (4) complete the necessary registration advisement forms; (5) file all registration forms with the Office of the Registrar; (6) and pay tuition and fees. More detailed information and instructions are published in the *Schedule of Classes*.

Late Registration

Late registration begins with the first day of classes for the term and is permitted during the period provided in the academic calendar. No student will be allowed to register after those dates. Students registering during late registration must pay a fee of $50 in addition to other charges.

Changes in Registration

A student who finds it necessary to add or drop a course or change a credit value (in a variable-credit course) or grade type in a course in which he or she is already registered may make such an adjustment during the periods specified in the semester's *Schedule of Classes*.

A student may not add a course after the second week of classes, with the exception of independent reading courses or study projects, which may be added through the fourth week of classes. A student may not change grade type in a course to the pass-fail or A-F grading option after the second week of classes.

A student may withdraw from a course or change from credit to audit from the beginning of a semester until the date when midterm grades are due. After that, a course withdrawal or change from credit to audit will be permitted only with the approval of the dean or dean's designate of the student's school or college. The instructor's approval may be required. When a student withdraws from a course during the first two weeks of a semester, the course will not appear on the academic record; withdrawal thereafter is noted with a W in place of a grade. Withdrawal during a summer session is subject to the same rules, proportionally adjusted.

To effect any of these changes in registration, a Course Registration Change form must be submitted to the Office of the Registrar after the appropriate approval signature or signatures have been obtained. Detailed instructions are provided in the *Schedule of Classes* each term. Discontinuing attendance in class or notifying an instructor of a status change does not constitute an official action.

The time tables stipulated above are applicable to fall and spring semesters. Time tables for making changes to summer session registration are specific to the particular sessions. Complete details are published in the summer *Schedule of Classes*.

Student Responsibility

Students assume financial and academic responsibility for each course they register for. Refunds, cancellation of charges, and release from courses are governed by the refund and withdrawal policies stated in this publication and in the *Schedule of Classes*. Unless a course is canceled by the university, charges for it remain in effect and the student continues to be responsible for completing it unless the student drops the course or withdraws from the university.

Students are also responsible for properly registering for the courses they intend to take. Attending class and completing the required work do not constitute an official registration.

The appropriate forms for these actions must be submitted to the Office of the Registrar. The date on which the registrar receives the student's written notification of drop or withdrawal is the effective date on which academic action, refunds, and cancellation of charges are based. Discontinuing attendance in class or notifying an instructor of a status change does not constitute an official withdrawal or course change.

Nondegree Student Registration

A student who does not wish or is not ready to pursue a degree program but desires to register for particular courses for which he or she is qualified may be considered by the University Programs Advisement Center for permission to enroll as a nondegree student. Such a student receives full academic credit for courses successfully completed. See "Nondegree Study" in this publication for details.

Off-Campus Registration

The Office of Continuing Education and Conferences arranges for course offerings at selected off-campus locations throughout the Washington metropolitan area. These courses provide nondegree study opportunities and can also be used in both graduate and undergraduate degree programs. Although the scheduling of off-campus courses follows the general pattern of the university calendar and time schedule, it does not necessarily conform exactly to the campus semester dates.

While students may register for most off-campus courses on-campus during regular registration, special registrations are also held at the off-campus locations. For further details, consult the Office of Continuing Education and Conferences.

Consortium Registration

In cooperation with the Catholic University of America, Georgetown University, George Washington University, Howard University, the University of the District of Columbia, Gallaudet University, Mount Vernon College, Trinity College, the University of Maryland, and Marymount College, The American University offers qualified undergraduate and graduate degree students the opportunity to enroll for courses at any of these institutions through the Consortium of Universities of the Washington Metropolitan Area. Such courses are usually limited to those not offered by or not immediately available at The American University. Credit earned through this program is considered residence credit.

Courses in the off-campus program of George Washington University may not be taken through the consortium program by American University students, nor may students from other consortium universities take American University off-campus courses through the consortium program.

Independent reading courses, independent study projects, special tutorial courses, and courses offered in medicine, dentistry, nursing, or canon law are excluded from consortium registration.

To be eligible for this program, students must (1) be fully admitted degree students, (2) be actively enrolled, (3) be in good academic standing, (4) be approved by the American University dean or department chair of the subject matter field for which registration is requested, and (5) be approved by the Office of the Registrar. The student is responsible for securing approval at the cooperating institution.

Forms to be used for this program are available in the Office of the Registrar. American University students must follow the registration procedures published in the *Schedule of Classes* for that term and pay the tuition rate of The American University. Special fees (such as lab fees) are paid to the school where the course is offered.

Consortium Libraries Graduate degree students enrolled in one of the consortium universities or associated member colleges will be eligible for direct-borrowing cards. Applications for a consortium borrowing card are to be made at the main library of the home university.

Any eligible consortium student who registers for a course at another consortium institution automatically receives library privileges at the institution giving the course.

Auditing

A student who wishes to attend a class but who does not wish to participate, take examinations, receive a final grade, or receive credit for the course may register as an auditor. Tuition and fees for auditors are the same as those for students registering for credit.

Undergraduate Audit Program

Qualified undergraduate students may audit up to nine undergraduate semester hours free of charge after they have completed 120 semester hours at The American University or while enrolled in the semester in which the last course required for a degree is to be completed. Enrollees in this program must have a cumulative grade-point average of 3.50 on completion of ninety semester hours at The American University. Registration is accomplished during the first two weeks of a semester. Courses taken under this program do not involve tuition, but any special fees (for example, a music fee) must be paid by the student.

Alumni Audit Program

Holders of degrees from the university may take one nontutorial course each fall and spring semester as auditors with tuition remitted; a nominal registration fee is charged. An alumnus or alumna wishing to audit a course is limited by the availability of space in it during the late registration period. Registration under these terms does not include such courses as independent study, laboratory courses, private music instruction, or maintaining matriculation. An alumnus or alumna who wishes to have a course reflected on his or her academic record, or who wishes to receive credit for the course, must enroll through the Registrar's Office and pay tuition at the prevailing rate.

Withdrawal from the University

A degree-seeking student who wishes to withdraw from the university should go to the Division of Student Life to complete a Withdrawal Request form, for an exit interview and counseling, and for information on the refund policies and procedures of the university.

Nondegree students who wish to withdraw from the university should complete a drop form for each course they are registered for and submit the forms to the Office of the Registrar.

General Curricular Information

Academic Calendar

The academic calendar is divided into fall and spring semesters (of approximately fifteen weeks each) and a summer term (also of approximately fifteen weeks) consisting of two seven-week sessions (evening classes) and two six-week sessions (daytime classes).

The last week of the fall and spring semesters is set aside for final examinations. However, the decision to give final

examinations is left to the discretion of the college, school, department, or individual instructor offering the course. If no final examination is given, the course will meet for a final class during the scheduled final examination period. The time set for all final examinations is two and a half hours.

The holidays and vacations usually observed by the university are as follows: Labor Day; Thanksgiving weekend (Thursday, Friday, Saturday); Christmas and New Year's Day (included in the midyear intersession break); Martin Luther King Day; Inauguration Day (every four years); Memorial Day; and Independence Day. Classes continue until 10:40 p.m. the evening before a holiday or vacation period.

The official calendar for each academic term is published in detail in the *Schedule of Classes*. Faculty members and students should check this source for final information about the current academic calendar. The university reserves the right to change any published calendar. Information about last-minute changes will be distributed as widely as possible, especially through the local news media.

The Washington College of Law traditionally follows a calendar which differs somewhat from that of the rest of the university.

Course Numbers

Each course is designated by a five-digit number. The digits to the left of the decimal point represent either the teaching unit offering the course or an area within such an academic unit: 03.xxx Anthropology; 19.xxx Economics; 07.xxx Art History. The last three numbers identify the level of the course as follows: xx.001–xx.099=no degree credit; xx.100–xx.499=undergraduate degree credit; xx.500–xx.599=graduate courses to which advanced undergraduate students may be admitted; xx.600–xx.799=graduate courses to which undergraduate students usually are not admitted.

Off-campus courses carry the letter *O* as a prefix to the teaching unit code. The current teaching unit codes for course numbers are as follows:

Teaching Unit Name	Course Number Code
American Studies	02.xxx
Anthropology	03.xxx
APEL	77.xxx
Art:	
Art History	07.xxx
Studio and Design	05.xxx
Audio Technology	50.xxx
Biology	09.xxx
Business Administration:	
Management	10.xxx
Marketing and Procurement	11.xxx
International Business	12.xxx
Finance and Real Estate	13.xxx
Accounting and Taxation	14.xxx
Public Relations	16.xxx
Chemistry	15.xxx
Communication	17.xxx
Community Studies, Latino Institute	71.xxx
Computer Science	40.xxx
Consortium and Cooperative Program Institutions:	
The Catholic University of America	82.xxx
Gallaudet University	85.xxx
Georgetown University	86.xxx
The George Washington University	87.xxx
Howard University	88.xxx
Mount Vernon College	84.xxx
Trinity College	89.xxx
The University of the District of Columbia	83.xxx
The University of Maryland	91.xxx
Wesley Theological Seminary	81.xxx
Dance (see Performing Arts)	
Economics	19.xxx
Education	21.xxx
English Language Institute	74.xxx
General Education Complement	00.xxx
Government and Public Administration:	
Government and Political Science	53.xxx
Public Administration	54.xxx
Washington Semester	56.xxx
History	29.xxx
Interdisciplinary Studies	75.xxx
International Service	33.xxx
Jewish Studies	34.xxx
Justice	73.xxx
Language and Foreign Studies:	
Advanced and Topics	37.xxx
Elementary and Intermediate	36.xxx
Linguistics	38.xxx
Law	39.xxx
Literature	23.xxx
Mathematics	41.xxx
Music (see Performing Arts)	
Nursing	46.xxx
Performing Arts:	
Dance, Music, Theatre, and Arts Management	67.xxx
Applied Music	68.xxx
Philosophy and Religion:	
Philosophy	60.xxx
Religion	61.xxx
Physical Education	49.xxx
Physics	51.xxx
Psychology	57.xxx
Public Financial Management	28.xxx
Religion (see Philosophy and Religion)	
Sociology	65.xxx
Statistics	42.xxx
Study Abroad	92.xxx, 94.xxx, 95.xxx
Technology and Administration	55.xxx
Theatre (see Performing Arts)	
University Honors Program Seminars	01.xxx
Women's Studies	76.xxx

Credit Values

In 1978, the university changed undergraduate degree requirements from 32 course units to 120 semester hours. All undergraduate and graduate courses are valued in semester hours. There are no fractional semester hours. Generally, each semester hour is equal to 50 minutes of class instruction a week.

Course Descriptions and Syllabuses

Descriptions of individual courses are given with the course listings in this publication. Course syllabuses are available from departmental offices.

Course Prerequisites

Many courses call for a minimum background of knowledge as indicated by prerequisite courses cited in individual descriptions. Titles and numbers are those of American University courses; equivalent courses satisfactorily completed at other accredited institutions also meet prerequisite requirements by transfer credit.

Students are responsible for entering the class with the required competence. Thus, prerequisites warn students of the knowledge they are to bring with them in order to meet the expected standards of performance.

Independent Reading and Study Courses

An Independent Reading Course is defined as a course in which a student by prearrangement with an instructor reads a body of material with little formal instruction.

An Independent Study Project is defined as a course in which a student does research on a topic agreed on by the student and the instructor or engages in study deemed worthy of the student's efforts by the instructor responsible for the course.

Registration for these courses is held during the regular registration period for a semester or summer session. A student may add one of these courses until the end of the fourth week of a fall or spring semester or until the end of the second week of a summer session.

Before a student registers for an independently supervised course, the student and faculty member must agree on and document the title, objective, scope, and credit value (one to six semester hours) of the project to be pursued. The head of the teaching unit must approve the project and the faculty member's involvement, and certify that the project does not duplicate a course being offered in the same semester that would be available to the student.

It is expected that the student will meet periodically (or correspond, if necessary) with the instructor to review progress. Students are generally expected to complete an independently supervised course within the semester of registration. At the discretion of the instructor, the time limit may be extended, however, to the end of the second term following the term in which the student registered (including summer).

Students in independently supervised courses may be assigned conventional grades or pass-fail grades, according to the agreement with the instructor made before registration. A temporary grade of IP (in progress) will be assigned by the instructor at the end of the semester in which the student registered if an extension of the time limit has been approved. The IP grade must be resolved to a final grade by the end of the second term following (including summer). Any further extension must be authorized according to the regulations governing grades of Incomplete listed elsewhere in this section.

Class Periods

Day classes, except those on Wednesday and Saturday, ordinarily meet two days a week for seventy-five minutes a meeting. Wednesday and Saturday classes ordinarily meet once a week for two hours and thirty minutes. Some classes meet three times a week for fifty or sixty minutes a meeting.

Evening classes ordinarily meet once a week for two hours and thirty minutes or twice a week for seventy-five minutes a meeting.

Classes at the 600 and 700 levels may, in some cases, meet for a total of two hours a week at the discretion of the teaching unit concerned.

Courses involving laboratory, studio, discussion groups, or workshops may vary from these schedules. Independent reading courses, study projects, internships, and similar kinds of study opportunities meet according to the special arrangement with the school, department, or faculty members concerned.

Students are advised to note carefully the meeting times and places listed in the *Schedule of Classes* for each term.

Emergency Cancellation of Classes

In the event of an emergency, university classes are canceled when the District of Columbia and United States Government authorities close district and federal offices. Otherwise, unless cancellation of classes under special circumstances is announced publicly, classes will meet. When cancellation of classes is necessary, instructors are expected to arrange for additional reading, study assignments, or class meetings to compensate for attendance time lost.

Cancellation of Courses

Occasionally it is necessary to cancel a scheduled course because of low enrollment, because of the last-minute unavailability of an instructor, or for other unavoidable reasons. Every effort is made to announce cancellation before the first class meeting, but this is not always possible.

If a course is canceled, a student who does not choose to transfer to another course is automatically dropped and may receive a full refund of the tuition and fees paid for the canceled course by completing a refund request form in the Office of Student Accounts.

Class Attendance

The university considers class attendance a matter best left to the discretion of the individual instructor. It is expected, however, that faculty members who have a particular attendance policy will announce that policy at the first few class meetings each semester.

Veterans and others receiving government benefits are reminded that the paying agency may have specific attendance policies. Details of veterans' benefits are available from the veterans' counselor in the Office of the Registrar.

Confidentiality of Student Records

The American University complies with the Family Educational Rights and Privacy Act of 1974. In accordance with this act, the university allows students access to their official records and an opportunity for a hearing to challenge records they find inaccurate, misleading, or otherwise inappropriate.

The university must obtain students' written consent before releasing information from their records to persons outside the university, except as provided by the act and except for certain directory information. Information may be furnished to a student's parents without written consent only with certification of the student's financial dependence. A student who does not want directory information released

must notify the Office of the Registrar in writing. Forms for this purpose are available from the registrar and should be filed within thirty days following enrollment at the university.

The university must comply with a judicial order or lawfully issued subpoena to release a student's record and will notify the student of this action.

Copies of the university's full policy statement on the confidentiality and release of student information may be obtained from the Office of the Registrar.

Rights, Responsibilities, and Code of Conduct

Preamble

The American University community is composed of faculty, students, and administrators who live, work, and study together in an institutional framework in pursuit of truth and the dissemination of knowledge. Freedom of inquiry and intellectual endeavor can flourish only in a community in which the participants are united in their mutual search for intellectual growth.

The pursuit of truth in a setting of free inquiry requires an institutional framework in which each member of the university community must recognize and be assured of the academic freedoms and the personal rights and liberties of all members of the community—for themselves and for each other. The preservation of academic freedom and personal rights and liberties in the fullest sense of those expressions are the responsibilities of each and every member of the community—in a real sense these freedoms and responsibilities are indispensible to the university community.

If the purposes of the university and its community are to be realized and advanced, the rights, responsibilities, and reasonable standards of conduct essential to a university community must be set forth.

The Rights, Responsibilities, and Code of Conduct of The American University hereinafter and set forth by the University Senate with the approval of the president and the provost are established for The American University community.

I. Rights and Responsibilities

1. No member of the university community shall be deprived of academic freedoms, personal rights, and liberties without due and fair processes of applicable university regulations.

2. No disciplinary sanctions may be imposed upon any member of the university community under the authority of the university without fair and due process provided.

II. Code of Conduct

University discipline under this code is limited to misconduct which adversely affects the university community's pursuit of its educational objectives.

Misconduct under this code for which members of the university community are subject to university discipline is defined as follows: (a) physical abuse of any person on university premises or at university-sponsored events or functions or conduct which threatens or endangers the health or safety of established rights and liberties of any such person; (b) theft from or willful, wanton, or reckless damage to university premises or property or theft of or willful, wanton, or reckless damage to property of a member of the university community on university property; (c) dishonesty, such as cheating, plagiarism, or knowingly furnishing false information; (d) fraud, forgery, alteration, or use of documents, university records, or instruments of identification with intent to defraud; (e) intentional obstruction or disruption of teaching, research, administration, disciplinary proceedings, or other university activities, including public service functions, and other authorized activities on university premises; (f) the entry or attempt to enter without lawful authority of any dwelling, building, or facility on university premises, against the will of the lawful occupant or of the person lawfully in charge thereof, or being therein or thereon, without lawful authority to remain, and refusing to quit the same on demand of the lawful occupant or of the person lawfully in charge thereof; (g) violations of published rules governing university residence halls; (h) failure to comply with directions of university community officials authorized and acting in performance of their duties; (i) any violations of District of Columbia and federal law (including specifically acts declared unlawful relating to narcotic drugs, dangerous drugs, alcoholic beverages, and gambling) on university premises and in university residence halls; (j) violation of District of Columbia and federal law on university premises in a way that adversely affects the university community's pursuit of its educational objectives; (k) keeping, using, or possession of any firearms, fireworks, explosives, or dangerous weapons on university premises or in university residence halls or at university sponsored functions; or any other materials or substances which are prohibited by law or the possession of which is prohibited by law with the sole exception of law enforcement officials duly authorized by law to possess firearms for the performance of their duties; (l) the use or consumption of intoxicants including alcoholic beverages, except where specifically authorized under lawful circumstances and conditions, is prohibited on university premises and in university residence halls; (m) gambling is prohibited on university premises and in university residence halls or at university sponsored functions, unless specifically authorized by appropriate university officials in accordance with local law; (n) soliciting or canvassing for commercial purposes by any group or organization not officially recognized by the university is not permitted on university premises or in university residence halls; recognized groups or organizations must submit prior notice of intent and obtain specific prior permission from the director of student activities and special services or the director of residential life, as appropriate, to solicit or canvass for commercial purposes on university premises or in university residence halls; (o) the unauthorized use of the university's corporate name, which is the property of the university, by any person, persons, or organizations in the university community is prohibited and grounds for disciplinary action.

Conduct Council

The American University's students, faculty and administrative officers have created a Conduct Council to assure just, speedy, and constructive resolution of controversies arising from infractions of The American University Code of

Conduct for Students. For information on the Conduct Council, consult the Division of Student Life.

General Information

Student Responsibility

Students are responsible for their behavior, academic and otherwise, at The American University. The American University expects that students, as mature members of the academic community, will adhere to the highest standards of personal and academic integrity and good taste.

To protect their academic status, students should seek the appropriate approval of their academic program advisers. It is highly recommended that students keep their own records of all transactions with the university (grade reports, registration schedules and changes, incomplete forms, etc.).

It is also advisable to keep copies of all tests and papers submitted in fulfillment of course work.

University Liability

Faculty, students, staff, and guests are responsible for their personal property, clothing, and possessions. The university does not carry any insurance to cover losses of such articles nor does it assume any responsibility for such losses.

Required Immunizations

District of Columbia Law 3-20, Immunization of School Children, provides the following:

Diphtheria, Pertussis, and Tetanus (DPT): Students nineteen years old until their twenty-sixth birthday who are receiving a primary immunization are required to receive two DPT vaccine doses and one booster vaccine dose after six months for tetanus and diphtheria (Td). All DPT doses previously administered may be considered in this computation. However, if more than ten years have elapsed since the last Td booster was administered, an additional Td booster vaccine dose is required.

Polio: A polio vaccine immunization is not required. However, it is recommended that students who are unimmunized receive three doses of inactivated polio vaccine (IPV) and one booster vaccine dose after six months. Students who are incompletely immunized should complete the required doses of the vaccine previously administered.

Measles (Rubeola), Rubella (German Measles), and Mumps: One vaccine dose for each of these diseases is required before students enter school if these immunizations were not previously administered.

A physician-documented history of disease may be accepted in lieu of vaccination with the exception of rubella and measles. Laboratory evidence of immunity is acceptable in lieu of vaccination for all seven diseases, and in some circumstances may be required.

Program Accessibility for Handicapped Students

Most of The American University's educational programs are readily accessible to students with disabilities, and the university continues to take steps to eliminate barriers to participation by qualified handicapped students.

To provide adequate time for any special preparations required of the university, applicants with handicaps are encouraged to make their plans and, especially, to visit the campus as early as possible in the application process; campus tours may be arranged through the Office of Admissions. In addition, the Center for Psychological and Learning Services can usually make special arrangements for the applicant to take admissions tests. The university will treat confidentially all inquiries from handicapped applicants. Any information voluntarily provided will in no way be used in evaluating the applicant's file for admission; it will be used only to assist the student.

Applicants who may need and be eligible for tuition benefits and auxiliary aids (such as readers and interpreters) should apply for vocational rehabilitation benefits through their home states as early as possible in making their college plans. Special services are coordinated on campus by the Division of Student Life Central Office, Mary Graydon Center 200, The American University, Mary Graydon Center, Washington, D.C. 20016.

Accessible housing is available, both in a traditional dormitory on campus and in apartment units near the campus. The reference librarian will assist handicapped students in using the university library, consortium libraries, and the special resources of the Library of Congress.

Preadmission inquiries may be answered and general information obtained by consulting the Division of Student Life, Office of Special Services for the Handicapped, Mary Graydon 330, The American University, Washington, D.C. 20016.

Schedule of Classes

The Office of the Registrar publishes class schedules for each fall and spring semester and for the summer sessions.

The College of Arts and Sciences

Dean Betty T. Bennett

Associate Dean for Undergraduate Students Valora Washington

Associate Dean for Graduate Students Robert L. Morasky

Associate Dean for Faculty and Curricular Development Allen J. Lichtman

Associate Dean for Budget and Administration Kathleen Kennedy-Corey

Academic Counselor Carl E. Cook

Academic Counselor James E. Moore

The College of Arts and Sciences is committed to providing an excellent liberal education for all undergraduates of The American University. Only the solid foundation of a liberal education will prepare the university's graduates to take their places as responsible, free men and women in a democratic society. A liberal education is also an indispensable means by which to realize and develop those intellectual, creative, and moral capacities of the individual which are necessary for a full and balanced life.

The responsible exercise of freedom rests in part on the foundation of a liberal arts education, a tradition whose roots lie in antiquity. The variety of arts now embodied in a liberal education has increased significantly since the Middle Ages. Whole new categories of quantification and evaluation enrich our potential for well-being and progress; new arts and new natural and social sciences join with the original arts of language, measure, and song to form a curriculum of cultural and moral education leading toward the increase of individual liberty on the one hand and the increase of the common benefits on the other. At The American University, the liberal arts are practiced as ways of improving our relationships with each other, our relationship to the planet on which we live, and our relationships with other peoples, however difficult those relationships may currently seem.

A rigorous liberal arts education stresses four things: mastery of expression, especially in the English language; command of bodies of knowledge and recognition that those bodies of knowledge will change; skills of analysis and rational inquiry; and awareness of the moral dimensions of issues of all kinds. A rigorous liberal education provides for students four benefits: the development of individual creativity and intellectual potential; the capacity for intellectual imagination and play; the ability to make and to defend judgments of fact, value, aesthetics, and morality; and the basis for the wisdom that will give meaning to experience, both personal and corporate.

A liberal education is a preparation for a distinctive way of life, a life of freedom that is disciplined by rationality, ethical sensibility, and knowledge of oneself and one's world. A liberally educated person will not be a slave to ignorance, nor a hostage to narrow parochialism, nor a prisoner of outmoded techniques and technologies. A liberal education will prepare students of The American University for meaningful, healthful, ethical, and successful lives in our own rapidly changing and increasingly interdependent world.

The College of Arts and Sciences draws on the educational resources of Washington, D.C.—social, cultural, artistic, humanistic, and scientific—to bring a unique dimension to the universal body of human knowledge. The city provides a wealth of distinguished visiting lecturers and myriad educational resources. The John F. Kennedy Center for the Performing Arts, the Library of Congress, the Smithsonian Institution, the National Academy of Sciences, the National Aeronautics and Space Administration, the National Archives, the World Bank, and foreign embassies are but a few examples of the educational resources of the national capital. These resources are used in a multitude of ways: through research projects, internships, off-campus classes, site visits, cooperative education programs, and courses specifically about the city and its institutions.

Faculty

The College of Arts and Sciences has a distinguished teacher-scholar faculty of some 225 full-time professors and approximately 250 adjunct professors. Experts in their own fields, they have included ambassadors, advisers to presidents, world-renowned performers, national press figures, distinguished scientists, recognized artists and composers, pioneers in special education and learning theories, and consultants to major organizations, corporations, and even nations. Each year the college invites professors from other institutions, American and foreign, as well as artists in residence, to join the faculty.

For 1986–1987 full-time faculty, see the listing with the description of each teaching unit.

Undergraduate Study

Academic Advisement

The college challenges students to assume substantial responsibility for defining their educational goals, yet provides careful professional guidance to help them respond to the challenge. Undergraduates plan their academic programs with faculty advisers or academic counselors according to their interests, vocational plans, and academic maturity. First-semester freshmen are counseled by means of a detailed curriculum guide. The response to this information provides the basis for the first semester's course work. During freshman orientation, immediately before the beginning of the semester, entering students meet with their assigned advisers to discuss their academic programs. Usually, these advisers counsel students until formal declaration of a major, at which time the student selects or is assigned a faculty adviser in his or her major department. Transfer students go to the departments of their intended majors for academic advisement. If undecided on a major, transfer students are advised by a counselor in the Office of the Dean. Any student needing additional assistance from an academic counselor or dean of the College of Arts and Sciences should make an appointment through the receptionist, Gray Hall. Telephone: (202) 885–2440.

Foreign Language

The College of Arts and Sciences encourages students to gain proficiency in at least one foreign language. It is natural for students embarking on a career in international relations, a study of the humanities, specialization in minority groups in the United States, and those with many other interests to concentrate on language study. Graduate study will often require proficiency in one or more foreign languages.

Bachelor of General Studies

The Bachelor of General Studies (B.G.S.) degree with a major in General Studies is offered by the College of Arts and Sciences in conjunction with the Office of Continuing Education and Conferences. The degree is designed to serve the educational needs of adults who seek professional or personal advancement through either full-or part-time study. The Office of Continuing Education and Conferences provides academic advisement for students enrolled in this program. Consult the program description provided under "Continuing Education" in this publication.

Associate in Arts Degree

Some students do not or cannot remain in college for four years, yet desire to complete a degree program. This situation, along with the development of the junior college, has contributed to the popularity of the Associate in Arts degree, which may be awarded after successful completion of two years' study or its equivalent. The college offers the Associate in Arts degree with a major in General Studies only. To receive the associate degree, the student must fulfill the university English requirement, the university distributive requirement for associate degrees, and the English and mathematics competency requirements, and must accrue a total of sixty semester hours with a cumulative grade-point average of 2.0 or better. (See "Continuing Education" in this publication.)

Majors

By the end of the sophomore year, if not before, CAS students are expected to declare an academic major. It is in this field that the student pursues study in depth and synthesizes academic knowledge. Major programs are described under departmental sections of the college. A student should become familiar with departmental requirements and regulations as stated in this publication and on check sheets available in departmental offices. When making a formal declaration of major, students should ask to be assigned a major academic adviser who will supervise their studies until graduation.

Students interested in the natural sciences, mathematics, music, art, and physical education need to take specific courses in the freshman year if they intend to complete a degree in eight semesters. Such students should declare their interests as soon as possible and seek explicit counseling from the appropriate department.

Interdisciplinary Major

This program permits College of Arts and Sciences undergraduates to complete an interdisciplinary major according to their needs, abilities, and interests. A program is formulated with the advice and approval of three faculty members from disciplines relevant to the student's defined emphasis, and is subject to the review and approval of the dean.

The initiative in such degrees is with the student. It is the student who is responsible for determining the concept or theme on which the program is to center. With the three faculty members, the student determines the requirements of the chosen concentration and identifies a sequence of course work that fulfills the program's objectives. The program must be formulated in a written statement no later than the first semester of the junior year. (See "Special University Programs for Study and Research" in this publication.)

Minors

Undergraduate students may earn a minor in most departments and programs of the College of Arts and Sciences. For all minors offered by the College of Arts and Sciences at least nine semester hours of the stated requirements must be taken in residence at The American University. (See "Undergraduate Study" in this publication. For descriptions of specific minor programs, see the individual departmental listings below.)

Preprofessional Programs

The college offers preprofessional curricula in engineering, law, medicine and dentistry, social work, and theology.

Students interested in a graduate degree program in social work often major in one of the social sciences, with particular emphasis on sociology and psychology.

Pretheology students find the university's relationship with the Wesley Theological Seminary beneficial, and the Center for Campus Ministries directs an innovative program

of religious activities that complements preprofessional studies in religion.

The preprofessional programs in engineering, law, and medicine and dentistry are described in separate sections of this publication.

Special Study Opportunities

Affiliation with the Consortium of Universities of the Washington Metropolitan Area greatly expands the educational horizon for the student. Most departments have an honors program; these programs are described in each department's section of this publication.

Living-Learning Center

Traditionally, classrooms have been used for learning and dormitories have been used for living. The Living-Learning Center integrates these two experiences into an enriched education program for freshmen who live on an Anderson Hall floor designated for students of the center and for upperclass honors students.

The small classes in the center's suite of rooms and the informal atmosphere of the dormitory encourage group interaction and a close relationship between students and faculty. Study facilities in the center provide participants with a convenient and comfortable place to study and meet friends. A student takes two courses offered by the center and selects other courses from those offered by the teaching units of the college or other schools.

Internships and Cooperative Education

Internship and cooperative education programs, which engage the student in practical experience in its most intimate terms, support learning and on-the-job training. Interns work in many organizations in both the public and the private sector in the Washington area. The growing number of internships in the college is a convincing testimony not only to their popularity, but also to their success. For further information on cooperative education, see "Cooperative Education" in this publication.

Study Abroad

The College of Arts and Sciences regularly sponsors study-abroad programs during the regular academic year and during the summer. Such programs and courses have been conducted in London, Rome, Greece, Spain, the Soviet Union, and Latin America. For further information, see "Special Programs for Study and Research" in this publication or consult the office of Washington Semester Programs and Study Abroad Programs in the McKinley Building.

The Washington Semester in Arts and Humanities

The Washington Semester in Arts and Humanities is a one-semester special program open to American University students and students of affiliated institutions across the country. Participants take an interdisciplinary course on Washington, D.C., work as interns in a Washington agency related to the major field of study, do independent research projects, and select an elective from a list of American University courses that use the resources of the city from a disciplinary perspective. Affiliated departments and programs include: American Studies, Anthropology, Art History, History, Jewish Studies, Language and Foreign Studies, Literature, Performing Arts, and Philosophy and Religion. Each participating student is advised by faculty in the Washington Semester Program in addition to an adviser from the student's major department. Requirements for admission to the program are (1) nomination by a Washington Semester faculty representative; (2) a minimum 2.50 grade-point average on a 4.00 scale; (3) at least one course in the humanities area to which the student is applying; and (4) at least second-semester sophomore standing at the time of participation.

Graduate Study

The graduate programs of the College of Arts and Sciences are directed toward the development of highly competent scientists, sensitive teachers, and critical scholars. To achieve this objective, the college provides an academic setting and climate favorable to the free interchange of ideas and the disciplined exploration and testing of the most seminal of these notions. The primary function of this collaborative interchange among mature and maturing scholars is to enhance the latter's understanding of and sensitivity to the spirit and styles of intellectual problems of their own choosing and actively to seek their solution. These individually defined problems and the creative inquiry they generate are the ultimate influence for the fashioning of each student's program of graduate study in the college. See the specific program descriptions under the individual departmental sections of the college below. Also, see "Graduate Degree Requirements" in this publication.

American Studies

Director Brett Williams

Full-Time Faculty

Professor C. McLaughlin, K. Mussell

Associate Professor B. Williams

Research Assistant Professor L. Prosterman

American Studies offers students the opportunity to explore American culture through many paths, including America's intellectual traditions, creative arts, popular media, material culture, ethnic variety, folklore, social structure, and social change. Students learn to draw together the tools and insights of other disciplines to capture the complexities of American society, and to discover what Americans share as well as how they differ. In addition to foundation courses in the program, students choose one area of particular interest to them. Some decide to concentrate in a field such as literature, business, journalism, anthropology, history, or art. Others create a more personalized specialty such as women's studies, black culture, or urban affairs.

All students learn to use and appreciate Washington's American Studies research centers and cultural resources, including the Library of Congress, National Archives, the

Smithsonian Institution, and the city's many museums. Many study the city itself. Most work at internships during their senior year in such places as Congress, the Kennedy Center, the Smithsonian, or Common Cause.

The goals of the American Studies Program are to help each student develop an area of expertise and to build the skills for thinking critically, writing clearly, and untangling the relationship between large cultural forces and ordinary peoples' life experiences. American Studies graduates work in such diverse fields as journalism, broadcasting, local or national government, foreign service, teaching, museums, private business, and social services. Many students go on to graduate study or to law school.

B.A. in American Studies

Admission to the Program

A student who has earned a grade-point average of 2.50 in two courses related to the major qualifies for admission.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of forty-three semester hours with grades of C or better.

Course Requirements

- 02.202 American Dream/American Life /A, S (3)
- 03.201 Cultural Anthropology /S (3)
- 02.400 Interpreting American Culture (4)
- Nine semester hours from the following:
  - 23.210 Major American Writers I: An Introductory Survey /A (3)
  - 23.211 Major American Writers II: An Introductory Survey /A (3)
  - 29.207 History of the United States I /A, S (3)
  - 29.208 History of the United States II /A, S (3)
- Twelve semester hours selected from a single department or related departments and dealing with some aspect of American life.
- Nine additional semester hours in American Studies courses at the 300 level or above, excluding independent study and internship.
- One of the following as a senior project:
  - 02.410 Senior Thesis I (3)
  - 02.411 Senior Thesis II (3)
  - 02.491 Internship in American Studies (3–6)

Special Opportunities

Students with a grade-point average above 3.25 in courses taken for the major may be admitted to candidacy for an honors degree on completing an acceptable honors paper proposal. To graduate with honors in American Studies, students must enroll for a total of six hours in 02.341, 02.410, 02.411, or 02.490, as appropriate, for completion of a substantial thesis approved by two members of the American Studies Advisory Board. The honors thesis is one way of satisfying the senior project requirement in American Studies.

Minor in American Studies

Requirements

- 02.202 American Dream/American Life /A, S (3)
- 02.400 Interpreting American Culture (4)
- 03.201 Cultural Anthropology /S (3)
- Twelve semester hours in American studies at the 300 level or above.

Anthropology

Chair William L. Leap

Full-Time Faculty

Professor J.J. Bodine, K. Halpern (Emeritus), G.L. Harris (Emeritus), R.H. Landman, C.W. McNett, Jr., H.C. Moore (Emeritus), P. Nash (Emeritus), A.L. Vilakazi (Emeritus)

Associate Professor G.L. Burkhart, W.L. Leap, B. Williams

Assistant Professor D.B. Koenig

Research Faculty

Research Professor B. Maday

Research Associate Professor L.A. Bennett, J.L. Evans, A. Fleuret, L.M. Lackey

Research Assistant Professor V.G. Mason

Anthropology explores exciting questions about what is both universal and unique in the human condition. Anthropology, by its very nature, is a consciously nonsexist, nonracist, and nonelitist discipline; long ago anthropologists learned how to appreciate the variety of social and cultural systems in the world and the importance of looking at the human experience from various perspectives.

Different types of anthropologists explore these issues from different points of view. Cultural and social anthropologists, for example, untangle the richness of economic patterns, social systems, arts, and values of peoples around the world. Archaeologists help communities document and preserve the full detail of their history and prehistory. Physical anthropologists explore the dynamics of human evolution and study nutrition, health, and illness in their cultural contexts. Linguists examine different lan-

guages to see how linguistic structures affect speakers' perceptions of the world around them.

Studying anthropology at The American University introduces students to research in these and other areas while involving students in training programs and on-the-job experiences in which research can be applied to practical tasks. Internships within government or private agencies can be arranged for qualified students at all degree levels. Washington, D.C., is an international city, replete with museums, libraries, embassies, and other sources for cross-cultural research. Anthropology faculty are actively involved in their own basic and applied research tasks, and students are included in project activities whenever possible.

Undergraduates will find it easy to coordinate a major or minor in Anthropology with degree requirements in other teaching units. Graduate students may choose between a regular M.A., an applied M.A., or the doctoral program, depending on background, career interests, and professional goals. Financial assistance may be available for students in all degree programs; consult the Office of Admissions for details.

B.A. in Anthropology

Admission to the Program

Formal admission to the major by the departmental undergraduate studies director requires a 2.00 grade-point average (on a 4.00 scale) and better than a 2.00 grade-point average in two anthropology courses.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of thirty-nine semester hours with grades of C or better.

  If career plans require skill in a foreign language, a cluster of courses in a second discipline, field experience, or some other special preparation, arrangements will be made in discussion with the undergraduate adviser.

Course Requirements

- 03.201 Cultural Anthropology /S (3)
- 03.202 Human Origins /N (3)
- 03.331 Human Variation /N (3)
- 03.334 Modern Archaeology (3)
- 03.336 Social Structure (3)
- 03.337 Anthropology of Language (3)
- 03.339 Culture Area Analysis /S (3)
- 03.545 Developments in Anthropological Theory (3)
- 03.552 Quantitative and Qualitative Analysis (3)
- Two courses chosen from the following group:

  Comparison and Analysis
  03.100 Cultures of the World /S (3)
  03.335 Culture and Personality /S (3)
  03.340 Sex, Gender, and Culture (3)
  03.341 Culture and Poverty (3)
  03.342 Women and Work (3)
  03.430 Magic, Witchcraft, and Religion /A (3)
  03.431 Taboos (3)
  03.433 Anthropology of Art in Washington, D.C. /A, S (3)
  03.531 Archaeology (3)
  03.532 Cultural Change (3)
  03.534 Economic Anthropology (3)
  03.535 Ethnicity (3)
  03.537 Language and Culture (3)

- Two courses, one from each of the following two groups:

  Methods and Techniques
  03.338 City as Community: Anthropology of Urban Life /S (3)
  03.531 Archaeology: Artifact Analysis (3)
  03.533 Complex Societies (3)
  03.550 Ethnographic Research Methods (3)
  03.553 Data Banking and Multivariate Techniques (3)
  03.560 Summer Field School: Archaeology (3–9)

  Practical and Applied
  03.392 Cooperative Education Field Experience (3)
  03.491 Internship in Anthropology (3–9)
  03.542 Principles of Applied Anthropology (3)
  03.543 Anthropology of Development (3)
  03.544 Topics in Applied Anthropology (3)

Minor in Anthropology

Requirements

- 03.100 Cultures of the World /S (3)
  or
  03.201 Cultural Anthropology /S (3)
- 03.202 Human Origins /N (3)
- One course from the following:
  03.331 Human Variation /N (3)
  03.334 Modern Archaeology (3)
  03.336 Social Structure (3)
  03.337 Anthropology of Language (3)
- Three additional courses chosen at the 300 level or higher in consultation with a member of the departmental faculty.

Minor in Applied Anthropology

Requirements

- 03.201 Cultural Anthropology /S (3)
- 03.542 Principles of Applied Anthropology (3)

03.542 is to be taken after at least six semester hours of anthropology have been completed.

- An additional twelve semester hours, at least nine of which must be at the 300 level or above, chosen from at least two subfields (socio-cultural, linguistic, archaeological, physical) in consultation with an adviser.

B.A./M.A. in Anthropology or Applied Anthropology

This program is primarily designed for transfer students who enter The American University in their junior year with substantial background in anthropology. It allows eligible students to complete the B.A. in Anthropology and the M.A. in Anthropology or Applied Anthropology after three years (six semesters) of uninterrupted study. Students with interest in applied anthropology or in a field related to anthropology (e.g. law, social services, government service, public health) will find this degree combination especially appropriate for preprofessional training.

Admission to the Program

The standards for admission to the undergraduate major must first be satisfied. Undergraduate majors ordinarily apply for admission to the combined B.A./M.A. program at the end of their junior year. Admission decisions follow the procedures used to evaluate graduate applicants to the M.A. programs. Interest in this degree combination should be discussed with members of the faculty before formal application is begun.

Requirements

- All requirements for the B.A. degree with a major in Anthropology.
- All requirements for the M.A. degree with a major in either Anthropology or Applied Anthropology.

  Students may use six semester hours of course work in anthropology to satisfy the requirements for both degrees.

M.A. in Anthropology

Admission to the Program

A 3.00 undergraduate grade-point average; two academic letters of reference; an example of the applicant's work, e.g., a term paper; and GRE scores, if available, should be sent directly to the department. An undergraduate major in anthropology is not required.

Degree and Major Requirements

- A total of thirty semester hours of approved graduate work.
- One written examination in general anthropological theory and method (03.006).
- A thesis or two substantial research papers prepared in conjunction with advanced courses or research seminars, and approved by a committee of two members of the faculty. Final approval by the chair is required.

Course Requirements

- 03.631 Proseminar: Cultural and Social Anthropology (3)
- 03.634 Proseminar: Archaeology and Physical Anthropology (3)
- 03.637 Proseminar: Anthropological Linguistics (3)
- 03.797 Master's Thesis Seminar (6) (thesis option)

Note: A student from another discipline may take a comprehensive examination in anthropology (03.022 Cultural Analysis) with a minimum of nine semester hours in anthropology.

M.A. in Applied Anthropology

Admission to the Program

A 3.00 undergraduate grade-point average; two academic letters of reference; an example of the applicant's work, e.g., a term paper. GRE scores, if available, should be sent directly to the department. An undergraduate major in anthropology is not required.

Degree and Major Requirements

- A total of thirty semester hours of approved graduate work.
- One written examination stressing the relevance of general anthropology to applied work (03.008).
- A thesis or two substantial research papers prepared in conjunction with advanced courses or research seminars, and approved by a committee of two members of the faculty. Final approval by the chair is required.

Course Requirements

- 03.532 Culture Change (3)
- 03.542 Principles of Applied Anthropology (3)
- 03.543 Anthropology of Development (3)
  or
  03.544 Topics in Applied Anthropology (3)
- 03.631 Proseminar: Cultural and Social Anthropology (3)
- 03.634 Proseminar: Archaeology and Physical Anthropology (3)
  or
  03.637 Proseminar: Anthropological Linguistics (3)
- 03.691 Internship in Anthropology (3) or other three hours application of anthropological method and theory to practical problem-solving in the student's area of interest.
- 03.797 Master's Thesis Seminar (6) (thesis option)

Ph.D. in Anthropology

Admission to the Program

A 3.00 undergraduate grade-point average; two academic letters of reference; an example of the applicant's work, e.g., a term paper. GRE scores, if available, should be sent directly to the department. An undergraduate major in anthropology is not required.

Degree and Major Requirements

- A total of seventy-two semester hours of approved graduate work.
- Two languages or one language and statistical or computer analysis as a tool of research.
- Four comprehensive examinations.

  Examinations include 03.006 (Anthropological Method and Theory); one in a main field (03.016 Ethnological Methods, 03.017 Archaeological Methods, or 03.018 Linguistic Methods); one in an approved elective subfield of specialization (03.020); and one in an approved area of concentration (03.021). At least two examinations must be written and at least one must be oral.
- A dissertation and an oral defense.

  Field work is a component of dissertation research except in very unusual cases.

Students entering the program with an M.A. degree in anthropology earned elsewhere must complete thirty semester hours of course work and twelve semester hours of dissertation credit in residence.

Course Requirements

- 03.631 Proseminar: Cultural and Social Anthropology (3)
- 03.634 Proseminar: Archaeology and Physical Anthropology (3)
- 03.637 Proseminar: Anthropological Linguistics (3)
- 03.799 Doctoral Dissertation Seminar (12)

Note: A student in another discipline may take a comprehensive examination in anthropology with a minimum of twelve semester hours in anthropology. Anthropology students may take one outside examination if they take twelve hours of course work in a second approved discipline.

Art

Chair Mary D. Garrard

Full-Time Faculty

Professor N Broude, I. Eno (Emeritus), M.D. Garrard, A.S. Keck (University Emeritus), L. Penay, B.L. Summerford, T. Turak

Associate Professor L. Brabanski (Emeritus), M. Graham, M. Hirano, M. Oxman, C. Ravenal

Assistant Professor R.M. Haynie, E.J. Peak, C.A. Story

Research Faculty

Associate Research Professor M. Richman

The Department of Art encompasses the creative activities of the fine arts (painting, sculpture, and printmaking), the artistic applications of design, and the theoretical and historical concerns of art history. These complementary programs function together, so that the student gains not only depth of knowledge in a chosen specialty but also the breadth of experience that yields understanding of artistic traditions and values.

A faculty of exhibiting artists and practicing designers and strong studio programs focused on gaining facility with materials and familiarity with visual concepts make the art department, in effect, an art school within a university. An equally strong art history faculty and curriculum give the Art History major a solid grounding in art as a historical and humanistic discipline in an environment that provides continuing contact with art in the making. Because of our location in one of the major art capitals of the world and the university's proximity to Washington's great museums and art collections, all programs afford students the advantage of immediate experience with art masterpieces of the past and present.

An important objective of the department is to prepare students for careers in the arts. Given the sound theoretical and technical bases of our programs, our graduates find that a wealth of individual career opportunities awaits them. Depending on the specific discipline pursued they have become teachers, critics, graphic designers, illustrators, and exhibition design specialists. In addition, careers in museum and gallery work, teaching, visual resources, and historic preservation are available to qualified art historians.

B.A. in Studio Art

Admission to the Program

Departmental approval after satisfactory completion (C or better) of twelve semester hours of studio.

Tracks

Painting, Sculpture, and Printmaking.

University Requirements

- A total of 120 semester hours.

- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of fifty-four semester hours with grades of C or better.
- Twenty-four of the last thirty semester hours in the major program must be taken at this university (eighteen hours must be in studio, six may be in art history).

Course Requirements

- 05.104 Principles of Visual Form /A (3)
- 05.120 Fundamentals of Painting /A (3)
- 05.121 Fundamentals of Drawing /A (3)
- 05.360 Drawing (6)
- 07.100 Survey of Art I: Ancient and Medieval (3)
- 07.101 Survey of Art II: Renaissance and Modern (3)
- Eighteen semester hours including twelve semester hours from one and six semester hours from another of the following areas of concentration:

  Painting
  05.320 Creative Painting

  Sculpture
  05.340 Sculpture

  Printmaking
  05.364 Printmaking: Woodcut and Surface Print (3)
  05.520 Techniques of Etching
- Nine additional semester hours from the following:
  05.122 Fundamentals of Sculpture /A (3)
  05.320 Creative Painting
  05.322 Special Studies in Painting (3)
  05.340 Sculpture
  05.344 Ceramics
  05.360 Drawing
  05.364 Printmaking: Woodcut and Surface Print (3)
  05.520 Techniques of Etching
  05.560 Drawing
- Six additional hours of art history.

B.F.A. in Fine Arts

Admission to the Program

Admission is subject to the approval of a portfolio, judgment of grades and a personal interview. Approval of admission depends entirely on faculty action resulting from this review. Consideration for B.F.A. is permitted only after eighteen semester hours or three semesters of studio work at The American University but before beginning the senior year.

Tracks

Painting, Sculpture, and Printmaking.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of seventy-two semester hours with grades of C or better.

Course Requirements

- 05.104 Principles of Visual Form /A (3)
- 05.120 Fundamentals of Painting /A (3)
- 05.121 Fundamentals of Drawing /A (3) or equivalent
- 05.360 Drawing (6)
- 05.560 Drawing (3)
- 07.100 Survey of Art I: Ancient and Medieval (3)
- 07.101 Survey of Art II: Renaissance and Modern (3)
- Twenty-one semester hours from one of the following concentrations:

  Painting
  05.320 Creative Painting

  Sculpture
  05.340 Sculpture

  Printmaking
  05.364 Printmaking: Woodcut and Surface Print (3)
  05.520 Techniques of Etching
- Twelve semester hours in one other concentration, or six semester hours in each of the other two concentrations.
- Nine additional hours from the following:
  05.122 Fundamentals of Sculpture /A (3)
  05.320 Creative Painting
  05.322 Special Studies in Painting (3)
  05.340 Sculpture
  05.344 Ceramics
  05.360 Drawing
  05.364 Printmaking: Woodcut and Surface Print (3)
  05.520 Techniques of Etching
  05.560 Drawing
- Six additional semester hours of art history.

Note: Students who contemplate completing a double major will not be able to complete a B.F.A. program within the 120 semester hour limit.

B.A. in Design

Admission to the Program

Departmental approval after satisfactory completion (C or better) of twelve semester hours of design.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of fifty-four semester hours with grades of C or better.

  Twenty-four of the last thirty semester hours in the major program must be taken at this university, of which eighteen hours must be in design and six in studio or art history.

Course Requirements

- 05.150 Introduction to Design: Color /A (3)
- 05.151 Introduction to Design: Two-Dimensional /A (3)
- 05.348 Design Techniques I (3)
- 05.349 Design Techniques II (3)
- 05.352 Typography: Theory and Practice (3)
- 05.353 Typography: Color and Design (3)
- 05.356 Advanced Design I (3)
- 05.357 Advanced Design II (3)
- 07.100 Survey of Art I: Ancient and Medieval (3)
- 07.101 Survey of Art II: Renaissance and Modern (3)
- 17.430 Photography: The Lens and Image (3)

- Six semester hours from the following:
  - 05.158 Introduction to Design: Three-Dimensional (3)
  - 05.310 The History of Graphic Design (3)
  - 05.354 Production for Graphic Designers (3)
  - 05.359 Illustration (3)
  - 05.392 Cooperative Education Field Experience (3–9)
  - 05.396 Selected Topics (Nonrecurring) (appropriate topic)
  - 05.491 Internship (3) (with approval of department)

- Nine semester hours in studio from the following:
  - 05.104 Principles of Visual Form /A (3)
  - 05.120 Fundamentals of Painting /A (3)
  - 05.121 Fundamentals of Drawing /A (3)
  - 05.122 Fundamentals of Sculpture /A (3)
  - 05.320 Creative Painting (3)
  - 05.360 Drawing (3)
  - 05.364 Printmaking: Woodcut and Surface Print (3)

- Six additional semester hours in art history.

B.A. in Art History

Admission to the Program

Departmental approval after satisfactory completion (C or better) of twelve semester hours of art history.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of fifty-four semester hours with grades of C or better.
- Twenty-four of the last thirty semester hours in the major program must be taken at this university, eighteen hours of which must be in art history and six in related fields or studio.

Course Requirements

- 07.100 Survey of Art I: Ancient and Medieval (3)
- 07.101 Survey of Art II: Renaissance and Modern (3)
- 07.500 Approaches to Art History (3)

- Three semester hours in each of four periods:

  Ancient
  - 07.301 Greek Art (3)
  - 07.302 Roman Art (3)
  - 07.307 Women and Art (3)
  - 07.396 Selected Topics (Nonrecurring) (appropriate topic)
  - 07.520 Seminar in Art History (3) (appropriate topic)
  - 07.596 Selected Topics (Nonrecurring) (appropriate topic)

  Medieval
  - 07.303 Medieval Art /A (3)
  - 07.307 Women and Art (3)
  - 07.308 Gothic Art (3)
  - 07.396 Selected Topics (Nonrecurring) (appropriate topic)
  - 07.520 Seminar in Art History (3) (appropriate topic)
  - 07.596 Selected Topics (Nonrecurring) (appropriate topic)

  Renaissance
  - 07.304 Aspects of Renaissance Art /A (3)
  - 07.307 Women and Art (3)
  - 07.316 The Architecture of Humanism 1400–1700 (3)
  - 07.396 Selected Topics (Nonrecurring) (appropriate topic)
  - 07.501 Baroque Painting (3)
  - 07.513 Renaissance Painting: Giotto to Botticelli (3)
  - 07.514 Renaissance Painting: Leonardo to Caravaggio (3)
  - 07.520 Seminar in Art History (3) (appropriate topic)
  - 07.596 Selected Topics (Nonrecurring) (appropriate topic)

  Modern
  - 07.305 Aspects of American Art /A (3)

07.306 Modern Art /A (3)
07.307 Women and Art (3)
07.318 Nineteenth-and Twentieth-Century Architecture (3)
07.331 Painting and Sculpture in the United States until 1900 (3)
07.332 Painting and Sculpture in the United States: 1900 to the Present (3)
07.333 American Architecture until 1870 (3)
07.334 American Architecture: 1870 to the Present (3)
07.396 Selected Topics (appropriate topic)
07.508 Painting: Rococo through Impressionism (3)
07.510 Painting: Post-Impressionism to Expressionism (3)
07.511 Painting: Cubism to the Present (3)
07.520 Seminar in Art History (appropriate topic)
07.596 Selected Topics (appropriate topic)

- Fifteen additional semester hours in art history.

  At least two of the art history courses taken to fulfill requirements must be at the 500 level.

- Six hours in studio from the following:
  05.104 Principles of Visual Form /A (3)
  05.120 Fundamentals of Painting /A (3)
  05.121 Fundamentals of Drawing /A (3)
  05.122 Fundamentals of Sculpture /A (3)
  05.320 Creative Painting (3)
  05.340 Sculpture (3)
  05.360 Drawing (3)

- Twelve semester hours at the 300 level or above from one of the following fields: American studies, anthropology, history, literature, music, and philosophy.

  Course selections must be related to the major and to each other and must be approved by the faculty.

Note: Students contemplating graduate study in art history are advised to attain a reading knowledge of French, Italian, or German to the intermediate level (or equivalent of twelve semester hours at the college level.)

Special Opportunities

A major program track in American Art/American Studies is possible. It requires at least a twelve-semester-hour concentration in American art and a twelve-semester-hour related course requirement in American studies. Internships in local agencies, museums, galleries, and libraries are permitted with departmental approval, but are limited to three semester hours unless taken as electives.

Minor in Art History

Requirements

- 07.100 Survey of Art I: Ancient and Medieval (3)
- 07.101 Survey of Art II: Renaissance and Modern (3)

- Twelve additional semester hours at the 300 level or above, arranged and approved in advance with an art history adviser.

Minor in Design

Requirements

- 05.150 Introduction to Design: Color /A (3)
- 05.151 Introduction to Design: Two-Dimensional /A (3)
- 05.348 Design Techniques I (3)
- 05.349 Design Techniques II (3)

- Nine semester hours from the following:
  05.158 Introduction to Design: Three-Dimensional (3)
  05.310 The History of Graphic Design (3)
  05.352 Typography: Theory and Practice (3)
  05.353 Typography: Color and Design (3)
  05.354 Production for Graphic Designers (3)
  05.356 Advanced Design I (3)
  05.359 Illustration (3)

Minor in Studio Art

Requirements for the minor in Studio Art are dependent upon the student's interest and choice of concentration. Areas of concentration may include painting, printmaking, sculpture, drawing, or ceramics. The Studio Art minor requires twenty-one semester hours arranged and approved in advance through consultation with a studio faculty adviser. The adviser and student select the appropriate sequence of courses from the following list:

05.104 Principles of Visual Form /A (3)
05.120 Fundamentals of Painting /A (3)
05.121 Fundamentals of Drawing /A (3)
05.122 Fundamentals of Sculpture /A (3)
05.320 Creative Painting (2–3)
05.340 Sculpture (2–3)
05.344 Ceramics (3)
05.359 Illustration (3)
05.360 Drawing (3)
05.364 Printmaking: Woodcut and Surface (3)
05.520 Techniques of Etching (3)

M.A. in Art History

Admission to the Program

Admission is considered for students who hold a Bachelor of Arts degree from a regionally accredited institution.

Two letters of recommendation are required if the undergraduate degree was not earned in the department.

Students whose records indicate a strong aptitude for graduate study, but whose undergraduate major was not in art history, will be required to complete at least twenty-four semester hours of art history before being considered for admission to the graduate program.

At the department's discretion, students who have completed at least eighteen semester hours of art history may be considered for admission and, if admitted, may complete the six-semester-hour deficiency during the course of their M.A. program.

Part-time students are advised that an M.A., which takes at least three semesters of full-time study, cannot be completed at night only or in summer only.

Degree and Major Requirements

- A total of thirty semester hours of approved graduate work. (A special thirty-six-semester-hour program with a structured museum internship option is available to qualified students).
- Tool of research: intermediate level French, German, or Italian, or reading knowledge of one of these languages demonstrated through examination.
- Advancement to candidacy after completion of eighteen semester hours with an average of 3.00 or better and satisfactory completion of the tool requirement.
- Two written examinations.

  One examination in 07.003 History of Western Art (Greek to Modern) and one in the student's specialized field of art history: 07.009 Medieval Art, 07.010 Renaissance Art, 07.011 Baroque and Rococo Art, 07.012 Nineteenth and Twentieth-Century Art, 07.020 Art in the United States, or 07.021 Architecture.
- Two substantial research papers in two master's thesis seminars. One paper must originate in a graduate seminar.

  One paper must be in the student's field of specialization.

Course Requirements

- Nine semester hours in the field of specialization.
- Six semester hours in master's research seminars, or independent study (07.792 and 07.793), of which three hours must be in the field of specialization (see examinations above for fields of specialization).
- 07.500 Approaches to Art History (3), if an equivalent course was not taken at the undergraduate level.
- Remaining courses distributed according to individual program and needs.

Note: About six additional semester hours of course work are required if museum training or more than one internship is selected.

Curriculum Models

Curriculum Model I: General History of Western Art. A discipline-oriented approach for students who intend to continue for a Ph.D. elsewhere or to teach at the high school or junior college level. The M.A. program would emphasize a range of art history courses with a conventional period specialization.

Curriculum Model II: Applied Research in Art History. A practical-applications approach with intensive training in research and writing for students who seek special training for museum work, architectural survey, historic preservation research, etc. The M.A. program could include related course work in history, culture, American studies, etc., as well as internships and field experience.

Curriculum Model III: Concepts of Art and Art History. A problem-oriented approach aimed at depth of understanding of art and methods of art history, for students interested in connoisseurship and critical analysis, generally with an emphasis in painting. The M.A. program would include fine arts courses such as 05.533 Materials and Techniques of Painting (3) (for which some studio experience is required) and 05.700 Criticism of Painting (3), as well as independent reading courses in criticism, theory, or historiography.

Special Opportunities

Individually structured programs in museum training and internships in local museums, galleries, agencies, or libraries, such as the National Museum of American Art, the American Institute of Architects, and the Library of Congress, are available for qualified students with departmental approval.

M.F.A. in Painting, Sculpture, or Printmaking

Although the department's orientation is very much toward painting, it is possible for a limited number of students with special permission to do the M.F.A. program in sculpture or in printmaking (woodcut and etching). Students should consult the department on the status of the sculpture and printmaking majors before submitting an application for admission.

Admission to the Program

Admission is considered for students who hold Bachelor of Arts (with fine arts major) or Bachelor of Fine Arts degrees from a regionally accredited institution.

Two letters of recommendation are required if the undergraduate degree was not earned in the department.

Under special circumstances, applicants without B.A. or B.F.A. degrees or without a major in fine arts, but with outstanding artistic or professional qualifications, may be considered for admission.

Each applicant must submit a portfolio of ten drawings (including figure studies) and four to six paintings (or prints or sculpture if relevant) to the department's Admission Review Committee. Slides or photographs may be submitted in lieu of original work, if shipping is difficult, but original drawings must be submitted in every case. A résumé of the applicant's background (academic and professional) should be included in the portfolio. Portfolios should be sent directly to the Department of Art. The Department of Art cannot be liable for loss or damage or for any transportation or mailing expense.

Degree and Major Requirements

- A total of thirty-six semester hours of approved graduate work.

  Additional studio courses (or art history) may be required to attain maturity and proficiency and to complete satisfactorily the comprehensives and thesis. The number and kinds of additional courses will be stipulated by the admissions committee at the time of admission.
- One written examination: 05.010 Theory and Techniques of Painting, 05.011 Theory and Techniques of Sculpture, or 05.012 Theory and Techniques of Printmaking.

- A series of original works of art in the student's field of concentration (painting, sculpture, or printmaking) executed independently by the student in consultation with a thesis committee of two or three faculty members. Written and photographic documentation of approved thesis is also required.

Course Requirements

- 05.533 Materials and Techniques of Painting (3)
- 05.560 Drawing (6)
- 05.700 Criticism of Painting (3)
- 05.792 Art Laboratory: Painting (6)
- 05.797 Master's Thesis Seminar (6)

- Three additional semester hours from the following:
  05.520 Techniques of Etching (3)
  05.560 Drawing (3)
  05.792 Art Laboratory: Painting (3)
  05.793 Art Laboratory: Sculpture (3)
  05.795 Art Laboratory: Printmaking (3)

- Nine semester hours in art history, of which six must be in painting if thesis field is painting. Distribution for printmaking and sculpture must be approved by faculty.

Audio Technology

Director Romeo Segnan

Full-Time Faculty See faculty listed under the Department of Physics in this publication.

The B.S. in Audio Technology is a multidisciplinary program of the Department of Physics taught in cooperation with the School of Communication, the Department of Performing Arts, and Audio-Visual Services. This unique program concentrates on the technology of sound; it is broad-based and includes overview courses in mass media, music theory, and theatre production. Such a program is the only route to the professionally recognized title of "audio engineer." With this training, the student is prepared for a career as a recording engineer, a radio or television audio technologist, an electronic maintenance or design engineer, or a concert-hall and theatre sound re-enforcement engineer.

B.S. in Audio Technology

Admission to the Program

The Department of Physics counsels freshmen and transfer students. Formal admission to the program requires a 2.00 grade-point average and the approval of the department undergraduate adviser.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of sixty-four semester hours with grades of C or better.

Course Requirements

- 41.170 Precalculus Mathematics /N (3)
- 50.101 Sound, Light, and the Arts /N (3)
- 50.201 Fundamentals of Audio Technology /N (3)
- 50.202 Audio Technology Laboratory (1)
- 50.230 Acoustics (3)
- 50.310 Analog Synthesizer (3)
- 50.312 Analog Electronics I (3)
- 50.313 Analog Electronics II (3)
- 50.320 Digital Synthesizer (3)
- 50.322 Analog Electronics Laboratory I (2)
- 50.323 Analog Electronics Laboratory II (2)
- 50.340 Electronic Troubleshooting (3)
- 50.384 T.V. Studio Operations (3)
- 50.410 Sound Studio Techniques and Practice (3)
- 50.420 Advanced Sound-Studio Techniques (3)
- 50.500 Digital Electronics (4)
- 51.218 College Physics I /N (3)
- 51.219 College Physics II /N (3)
- 51.222 General Physics Laboratory I (2)
- 51.223 General Physics Laboratory II (2)
- 67.126 Music Theory for Nonmajors /A (3)

- One of the following:
  17.100 Introduction to Mass Media /S (3)
  17.201 Introduction to Interpersonal Communication (3)
  17.333 Fundamentals of TV and VTR (3)
  17.346 Audio-Visual Communication (3)

- One of the following:
  67.260 Principles of Production I /A (3)
  67.362 Lighting Design (3)

Special Opportunities

Internships at active professional recording studios, radio and television stations, and theatres. Employers of audio engineers include business, government, educational institutions, and the entertainment industry.

Minor in Audio Technology

The minor in Audio Technology is designed for students who do not aspire to become audio engineers, but who do need a good working knowledge of audio techniques. Students wishing to minor in Audio Technology should consult the academic advisers in the Department of Physics.

Course Requirements

- 50.101 Sound, Light, and the Arts /N (3)

- 50.201 Fundamentals of Audio Technology /N (3)
- 50.202 Audio Technology Laboratory (1)
- 50.384 TV Studio Operations (3)
- 50.410 Sound Studio Techniques and Practice (3)
- 50.420 Advanced Sound Studio Techniques (3)

- 51.210 Elementary Physics /N (3)
  or
- 51.218 College Physics I /N (3)
- 51.219 College Physics II /N (3)

- 17.333 Fundamentals of TV and VTR (3)
  or one of the following:
  17.346 Audio-Visual Communication (3)
  17.430 Photography: The Lens and Image (3)
  17.435 Introduction to Studio Television (3)

Biology

Chair Martha C. Sager

Full-Time Faculty

Professor R.R. Anderson, W.C. Banta, E.J. Breyere, S.O. Burhoe (Emeritus), M.C. Sager

Associate Professor R.J. Chinnis, B.J. Clarke, R.H. Fox, S.C. Grebe, C.R. Wrathall

Assistant Professor A.A. Hagan

Research Faculty

Research Associate Professor D. Von Lubitz

The Department of Biology provides basic training in life sciences, emphasizing bacteriology, botany, ecology, embryology, genetics, physiology, and other specialized fields of study. The curriculum is planned for those with a professional interest in any one of several of the biological sciences and also prepares the student for continued graduate study.

Preprofessional students in biology have been accepted into medical, dental, and veterinary schools after receiving the B.S. degree. The American University Department of Biology has achieved a 71% acceptance of graduates into professional schools.

The Department of Biology at The American University offers courses which combine traditional education with the training necessary in today's professional market place. Curriculums are designed to allow maximum individual choice in course selection after departmental requirements have been met.

Our students have the opportunity to visit, observe, and intern in some of the nation's most prestigious biological research centers located within minutes of the campus. Biology majors are introduced to modern scientific philosophy and research methods in the first semester of their freshman year and later to more sophisticated instrumentation.

A second major in Environmental Science is offered at the undergraduate level. Environmental science specialists' activities range from laboratory and field research and data collection to providing information to both government and private-sector policy makers to help in the formulation of laws and regulations.

In cooperation with the School of Education, the department also offers a special curriculum which leads to certification for teaching biology at the high-school level. Students who have selected this specialization must consult the teacher education adviser in the biology department during the second semester of the freshman year. The Department of Biology is accredited for teacher education by two national accrediting organizations: National Council for the Accreditation of Teacher Education (NCATE) and National Association of State Directors of Teacher Education and Certification (NASDTEC).

Graduate Degrees and Specialties

The Department of Biology offers programs leading to the M.A. and M.S. degrees. Degree programs allow for concentrations in General Biology, Molecular/Cellular Biology, Physiology/Organismal, Microbiology, and Ecology. Interdisciplinary programs include Environmental Toxicology, Environmental Science, and Health Science. Comprehensive examinations are given in these subjects.

The research and teaching facilities in the Department of Biology provide adequate instrumentation and equipment: the Department of Biology shares with the Department of Chemistry a modern animal facility and an instrumentation laboratory. Graduate research may be carried out in the department or in the professional laboratories of such federal agencies as Walter Reed Institute of Pathology, National Institutes of Health, National Institute of Education, U.S. Naval Hospital, and others.

Many courses at the graduate level are offered in the early evening to enable employed students to pursue graduate study.

Expanding global needs for solutions to food, fuel, health, and population problems have provided new international employment possibilities for biology. Biology graduate courses are uniquely designed to introduce students to topics of current biological import, to encourage research interest, and provide insights into career opportunities for life scientists. Most of the graduate courses have field or laboratory components or both.

The American University is a member of the Consortium of Universities of the Washington Metropolitan Area. The resources of several fine institutions are pooled to enable students to have the best of many educational opportunities. Degree candidates at one university may also take courses at other consortium universities for residence credit.

Experiential Learning Opportunities

In addition to on-campus courses that provide laboratory and field experiences, students may also participate in a wide array of activities off campus in living-learning programs. Students may also be placed in government policy-making or regulatory agencies and private-sector laboratories as interns or on independent study projects.

Preprofessional medical students in the health sciences visit hospitals and clinics in the area and have an active speaker program run by their fraternity.

B.A. in Biology

Admission to the Program

The department counsels freshmen and transfer students. Admission is through formal declaration of major.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of forty-six semester hours with grades of C or better.

Course Requirements

Departmental Requirements

- 09.101 General Biology I Lecture /N (3)
- 09.102 General Biology II Lecture /N (3)
- 09.103 General Biology I Laboratory (1)
- 09.104 General Biology II Laboratory (1)
- 09.250 Cell Biology Lecture (3)
- 09.251 Cell Biology Laboratory (1)
- 09.310 Invertebrate Zoology Lecture (2)
- 09.311 Invertebrate Zoology Laboratory (2)
- 09.330 Human Anatomy and Physiology I Lecture (3)
- 09.331 Human Anatomy and Physiology II Lecture (3)
- 09.332 Human Anatomy and Physiology I Laboratory (1)
- 09.333 Human Anatomy and Physiology II Laboratory (1)
- 09.356 Genetics (4)
- 09.423 Introduction to Ecology (3)
- Three or four semester hours in biology at the 200 level or above.

Related Requirements

- 15.120 General Chemistry I /N (3)
- 15.121 General Chemistry I Laboratory /N (1)
- 15.130 General Chemistry II /N (3)
- 15.131 General Chemistry II Laboratory /N (1)

B.S. in Biology

Admission to the Program

The department counsels freshmen and transfer students. Admission is through formal declaration of major.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of seventy-seven semester hours with grades of C or better.

Course Requirements

Departmental Requirements

- 09.101 General Biology I Lecture /N (3)
- 09.102 General Biology II Lecture /N (3)
- 09.103 General Biology I Laboratory (1)
- 09.104 General Biology II Laboratory (1)
- 09.250 Cell Biology Lecture (3)
- 09.251 Cell Biology Laboratory (1)
- 09.356 Genetics (4)
- 09.357 Genetics Laboratory (1)
- Two of the following molecular/cellular courses: (Lecture and laboratory are taken together to count as one course.)
  09.340 Microbiology (3)
  09.341 Microbiology Laboratory (2)
  09.350 Foundations of Immunology (4)
  09.358 Developmental Biology Lecture (3)
  09.359 Developmental Biology Laboratory (2)
- Three of the following organismal courses, with at least one in botany and one in zoology: (Lecture and laboratory are taken together to count as one course.)
  09.304 Plant Structure and Function (4)
  09.310 Invertebrate Zoology Lecture (2)
  09.311 Invertebrate Zoology Laboratory (2)
  09.330 Human Anatomy and Physiology Lecture I (3)
  09.331 Human Anatomy and Physiology Lecture II (3)
  09.332 Human Anatomy and Physiology Lab I (1)
  09.333 Human Anatomy and Physiology Lab II (1)
  09.335 Vertebrate Physiology Lecture (3)
  09.336 Vertebrate Physiology Laboratory (2)
- Two of the following population/ecological courses: (Lecture and laboratory are taken together to count as one course.)
  09.423 Introduction to Ecology (3)
  09.424 Introduction to Ecology Laboratory (1)
  09.520 Limnology (4)
  09.566 Evolutionary Mechanisms (3)

Related Requirements

- 15.120 General Chemistry I /N (3)
- 15.121 General Chemistry I Laboratory /N (1)
- 15.130 General Chemistry II /N (3)
- 15.131 General Chemistry II Laboratory /N (1)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)
- 15.320 Organic Chemistry II (3)

- 15.322 Organic Chemistry II Laboratory (1)
- 42.202 Basic Statistics /N (4)
- 51.222 General Physics Laboratory I (2)
- 51.223 General Physics Laboratory II (2)

- 41.211 Applied Calculus I /N (4)
  or
  41.221 Calculus I /N (4)

- 51.218 College Physics I /N (3)
  or
  51.220 University Physics I /N (3)

- 51.219 College Physics II /N (3)
  or
  51.221 University Physics II /N (3)

Recommendations

Selection of a sub-field specialization is recommended for future career identification. Sub-field specializations available are microbiology; genetics and molecular biology; physiology; developmental biology; environmental science; plant science; and science education.

The following are recommended for preprofessional students:
41.221 Calculus I /N (4)
51.220 University Physics I /N (3)
51.221 University Physics II /N (3)

Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education chapter of this publication for information.

Pre-engineering

For the many students studying in the fields of mathematics, physics, chemistry, biology, and distributed sciences who are potential engineers, The American University has established cooperative five-year programs with the School of Engineering and Applied Science, Washington University, St. Louis, Missouri, and with the College of Engineering, University of Maryland.

Second Major in Environmental Studies

This is a program for bachelor's degree students with a primary major in another department.

Admission to the Program

Formal admission requires that the student have a previously declared major. Students interested in this program should consult the program director at an early date so that a program of study can be designed to fit the requirements of both majors.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of thirty-seven semester hours with grades of C or better.

Course Requirements

- 09.131 Environmental Science and Technology /N (3)
- 09.132 Environmental Health Science (3)
- 09.583 Energy Technology and the Human Environment (3)
- 09.491 Internship (3–6)
- Twenty-five additional semester hours (at least seven courses) in related environmental course work.

Minor in Biology

Requirements

- 09.101 General Biology I Lecture /N (3)
- 09.102 General Biology II Lecture /N (3)
- 09.103 General Biology I Laboratory /N (1)
- 09.104 General Biology II Laboratory /N (1)
- 09.250 Cell Biology Lecture (3)
- 09.251 Cell Biology Laboratory (1)
- 15.120 General Chemistry I /N (3)
- 15.130 General Chemistry II /N (3)

- One from the following:
  09.304 Plant Structure and Function (4)

  09.310 Invertebrate Zoology (4)
  or
  09.340 Microbiology (3)

  09.356 Genetics (4)
  09.358 Developmental Biology Lecture (3)
  09.359 Developmental Biology Laboratory (2)
  09.423 Introduction to Ecology (3)

M.S. in Biology

This is a research degree that may serve as an intermediate degree for those intending to pursue further graduate study (see comprehensive examination areas below).

Admission to the Program

Admission is based on evaluation of undergraduate and previous graduate work by the departmental graduate studies committee and two letters of recommendation. In addition, the Graduate Record Examination, both the General Test and the Advanced Test in Biology, must be taken.

Degree and Major Requirements

- A total of thirty-six semester hours of approved graduate work.
- One comprehensive examination selected from the following: 09.001 General Biology; 09.002 Health Science and Toxicology; 09.003 Molecular/Cellular Biology; 09.004 Physiology/Organismal; 09.005 Microbiology; 09.006 Ecology/Environmental; and 09.007 Environmental Toxicology.
- Advancement to candidacy after successful completion of the comprehensive examination.
- Completion, defense, and acceptance of thesis by the thesis committee, chair of the department, and the university.

Course Requirements

- 09.700 Graduate Seminar (2)
- 09.797 Master's Thesis Research (6)
- A minimum of twenty-two hours in biology, including two courses outside of the area of specialization to be determined by the student and adviser.

Special Opportunities

Teaching assistantship; Helmlinge Fellowship; Burhoe Fellowship.

M.A. in Biology

Admission to the Program

Admission is based on evaluation by the departmental Graduate Studies Committee of undergraduate and previous graduate work and on two letters of recommendation. In addition, the Graduate Record Examination, both the General Test and the Advanced Test in Biology, must be taken.

Degree and Major Requirements

- A total of thirty-eight semester hours of approved graduate work.
- One comprehensive examination selected from the following: 09.001 General Biology; 09.002 Health Science and Toxicology; 09.003 Molecular/Cellular Biology; 09.004 Physiology; 09.005 Microbiology; 09.006 Ecology; and 09.007 Environmental Toxicology.
- Directed research resulting in a significant paper reviewing some aspect of the biological sciences; the subject matter of this review paper will be determined by the student and the guidance committee.
- An oral report presented in the form of a public seminar on the topic of the review paper.

Course Requirements

- 09.700 Graduate Seminar (2)
- 09.790 Biology Literature Research (6)
- A minimum of twenty-four hours in biology.

Note: Changes to the requirements for the M.A. in Biology are pending. Consult the department for information.

Note Also: Interdisciplinary master's degrees in Biology and Environmental Systems Management, Biology and Education, and Environmental Toxicology (see below) are available. The Master of Science in Science Teaching (M.S.S.T.) is listed under Interdepartmental Science.

M.S. in Interdisciplinary Studies: Environmental Toxicology

Admission to the Program

Results of the positive evaluation by the appropriate departmental graduate studies committee. Two letters of recommendation are required.

Degree and Major Requirements

- A total of thirty-six semester hours of approved graduate work.
- Tool of research: statistics. (Course work taken to satisfy the tool-of-research requirement will not be counted towards the thirty-six hours necessary for the degree.)
- One comprehensive examination in environmental toxicology.
- Master's thesis: the subject matter of the paper will be determined by the student and the guidance committee.
- Thesis defense.

Course Requirements

Core Courses

It is recommended that these core courses be taken before other courses.

- 09.511 Animals in Research (3)
- 09.526 Comparative Mammalian Embryology (3)
- 09.660 Mammalian Physiology Pathology (3)
- 09.680 Introduction to Toxic Materials (3)
- 15.504 Principles of Biochemistry (3)
- 15.680 Chemical Mutagens and Carcinogens (3)
- 15.682 Toxicological Testing (3)

- 09.797 Master's Thesis Research (6)
  or
  15.797 Master's Thesis Research (6)

- 09.700 Graduate Seminar (1)
- Seven hours of electives from chemistry or biology.

Independent study is also available.

Special Opportunities

Helminge Fellowship; Burhoe Award; graduate teaching assistantships. Off-campus courses and degree programs are

available for all graduate students in biology. Students should consult advisers for information.

Chemistry

Chair James E. Girard

Full-Time Faculty

Horace and May Isbell Chair in Natural Products Chemistry H.S. El Khadem

University Professor D.E. Hadary

Professor M.H. Aldridge (Emerita), R.T. Foley (Emeritus), J.E. Girard, F.A.H. Rice (Emeritus), N.M. Roscher, P.F. Waters

Associate Professor T.S. Cantrell, F.W. Carson, A.M. Cheh, N.S. Gordon

Research Faculty

Research Professor B.H. Alexander, H.S. Isbell, H. Kingston, J. Kutina, A. Schwartz, M. Simic

Chemistry is the science that deals with the composition of materials, their structures and properties, the transformations they undergo, and the energy changes that accompany these transformations. Areas of study include general, organic, physical, analytical, inorganic, and polymer chemistry, as well as biochemistry, chemical toxicology, and earth science. Students are encouraged to participate in research projects at all levels.

Accredited by the American Chemical Society, the department offers programs leading to the B.S. as well as graduate programs leading to the M.S. and Ph.D. degrees in chemistry. Besides training for a career or graduate study in chemistry, bachelor's students are prepared for medical or dental school, engineering programs, and other careers where technical expertise is needed. The department provides a personal, congenial environment where students can develop and explore a flexible program of study designed to fulfill individual interests and needs.

Faculty members are involved in conducting research in analytical chemistry; chromatography—gas, liquid, and ion; biotechnology; and organic synthesis. Laboratory research projects are available in our own well-equipped modern building and also at many world-renowned research laboratories in the Washington, D.C., area with which the department maintains close liaison.

Affiliations

Research opportunities in the Washington area through internships, cooperative education work-study programs, and special arrangements are available at the following laboratories: Armed Forces Radiobiology Research Institute, Bureau of Mines, Food and Drug Administration, National Bureau of Standards, National Institutes of Health, Naval Medical Research Institute, Naval Research Laboratory, Naval Surface Weapons Laboratory, U.S. Army Mobility Equipment Research and Development Command at Fort Belvoir, and the Walter Reed Army Institute of Research. Students who participate in these programs obtain experience with specialized equipment and interact with research scientists outside the university.

B.S. in Chemistry

Admission to the Program

The department counsels freshmen and transfer students, as well as declared chemistry majors. A 2.00 grade-point average on a 4.00 scale is necessary for admission to the program.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of sixty-five semester hours with grades of C or better.

Course Requirements

- 15.120 General Chemistry I /N (3)
- 15.121 General Chemistry I Laboratory /N (1)
- 15.130 General Chemistry II /N (3)
- 15.131 General Chemistry II Laboratory /N (1)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)
- 15.350 Quantitative Analysis (3)
- 15.351 Quantitative Analysis Laboratory (2)
- 15.410 Physical Chemistry I (3)
- 15.411 Physical Chemistry I Laboratory (2)
- 15.420 Physical Chemistry II (3)
- 15.421 Physical Chemistry II Laboratory (2)
- 15.460 Instrumental Analysis (3)
- 15.461 Instrumental Analysis Laboratory (2)
- 15.507 Chemical Literature (1)
- 15.550 Advanced Inorganic Chemistry (3)
- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 51.220 University Physics I /N (3)
- 51.221 University Physics II /N (3)
- 51.222 General Physics Laboratory I (2)
- 51.223 General Physics Laboratory II (2)
- At least three semester hours from the following:
  15.490 Independent Study Project (1–6)

15.498 Departmental Honors: Senior Year (1–3)
15.499 Departmental Honors: Senior Year (1–3)
15.562 Biochemistry I Laboratory (2) and
15.563 Biochemistry II Laboratory (2)

Recommended Courses

15.102 Toxicology: Chemistry of Poisons /N (3)
15.560 Biochemistry I (3)
15.561 Biochemistry II (3)
15.562 Biochemistry I Laboratory (2)
15.563 Biochemistry II Laboratory (2)
15.564 Biochemistry III (3)
15.570 Computers in Chemistry (3)

Courses in biology and physics.

For graduate school preparation:
15.520 Advanced Organic Chemistry I (3)
15.521 Advanced Organic Chemistry II (3)
15.522 Interpretation of Spectra (3)
15.546 Thermodynamics and Statistical Mechanics (3)
15.551 Topics in Inorganic Chemistry (3)

Medical school requirements include:
09.101 General Biology I Lecture /N (3)
09.102 General Biology II Lecture /N (3)
09.103 General Biology I Laboratory (1)
09.104 General Biology II Laboratory (1)

Also recommended for medical school preparation:
09.250 Cell Biology Lecture (3)
09.251 Cell Biology Laboratory (1)
09.330 Human Anatomy and Physiology I Lecture (3)
09.331 Human Anatomy and Physiology II Lecture (3)
09.332 Human Anatomy and Physiology I Laboratory (1)
09.333 Human Anatomy and Physiology II Laboratory (1)
09.340 Microbiology (3)
09.341 Microbiology Laboratory (2)
09.350 Foundations of Immunology (4)
09.411 Pathogenic Microbiology Lecture (3)
09.412 Pathogenic Microbiology Laboratory (1)
09.505 Introduction to Neurobiology (3)
09.506 Introduction to Medicine and Physical Diagnosis (3)
09.532 Medical Parisitology (4)
15.560 Biochemistry I (3)
15.561 Biochemistry II (3)
15.562 Biochemistry I Laboratory (2)
15.563 Biochemistry II Laboratory (2)
15.564 Biochemistry III (3)

Other suggested electives include:
15.103 Earth Sciences /N (3)
40.280 Introduction to Computer Science I /N (4)
40.281 Introduction to Computer Science II /N (3)
42.202 Basic Statistics /N (3)
50.312 Analog Electronics I (3)
50.313 Analog Electronics II (3)
51.270 Basic Concepts in Modern Physics (3)
51.502 Classical Mechanics (4)
51.503 Electricity and Magnetism (3)
42.515 Regression (3)

Competence in German, French, or Russian through the intermediate level is expected. German is highly recommended because of its value in literature searching, which is taught in 15.507, Chemical Literature.

Special Opportunities

Milton Harris Prizes for entering Chemistry majors.

A cooperative work-study program involving several participating research organizations is available through the Department of Chemistry.

The undergraduate student is expected to work full time for six months and study at the university for five months. Further details are available from the department office.

An undergraduate research program is available. Qualified junior and senior chemistry majors may conduct research under 15.490 Independent Study Project in Chemistry or they may enter the honors program and graduate with Honors in Chemistry on meeting the following requirements: maintenance of a 3.00 cumulative grade-point average both in chemistry and overall; completion of 15.499 Departmental Honors: Senior Year with a grade of B or better; submission of a senior thesis and approval by the student's adviser and the departmental honors committee; and presentation of a departmental research seminar. Juniors may register for 15.398 and 15.399 Departmental Honors: Junior Year. Seniors register for 15.498 and 15.499 Departmental Honors: Senior Year.

Minor in Chemistry

Requirements

- 15.120 General Chemistry I /N (3)
- 15.121 General Chemistry I Laboratory /N (1)
- 15.130 General Chemistry II /N (3)
- 15.131 General Chemistry II Laboratory /N (1)
- 15.310 Organic Chemistry I (3)
- 15.312 Organic Chemistry I Laboratory (1)
- 15.320 Organic Chemistry II (3)
- 15.322 Organic Chemistry II Laboratory (1)

- Eight semester hours chosen with the advice and approval of the department chair from the following:
  15.350 Quantitative Analysis (3)
  15.351 Quantitative Analysis Laboratory (2)
  15.410 Physical Chemistry I (3)
  15.411 Physical Chemistry I Laboratory (2)
  15.420 Physical Chemistry II (3)
  15.460 Instrumental Analysis (3)
  15.461 Instrumental Analysis Laboratory (2)
  15.560 Biochemistry I (3)
  15.561 Biochemistry II (3)
  15.562 Biochemistry I Laboratory (2)
  15.563 Biochemistry II Laboratory (2)

Note Also: See the Cooperative Education section of this publication for information concerning work-study research opportunities at affiliated institutions. See the Interdepart-

mental Science section for information concerning requirements for the Bachelor of Science degree with a major in distributed science. See the Preengineering and Premedicine and Predentistry sections for descriptions of these programs.

M.S. in Chemistry

Admission to the Program

Applicants must have earned a degree equivalent to fulfilling the requirements for a B.S. in chemistry with a 3.00 cumulative grade-point average in chemistry from a college accredited by the American Chemical Society. All applications must be approved by the faculty of the Department of Chemistry.

Tracks

Analytical and Inorganic Chemistry (joint program), Biochemistry, Organic Chemistry, Physical Chemistry, and Chemical Toxicology.

Degree and Major Requirements

- A total of thirty semester hours of approved graduate work.

  The entire course of study must constitute a unified program with specific major and minor fields and a proposed curriculum approved by the department's graduate evaluation committee and the chair of the department one semester after the student enters the program.
- Advancement to candidacy on completion of twelve semester hours of graduate course work.
- An examination in German, French, Russian, computer programming, or statistics as a tool of research; students concentrating in chemical toxicology must take the examination in statistics.
- One comprehensive examination in the major field.
- A thesis of publishable quality based on original chemical laboratory research.

Course Requirements

- 15.507 Chemical Literature (1) (unless completed with a grade of B or better as an undergraduate)
- 15.550 Advanced Inorganic Chemistry (3) (unless completed with a grade of B or better as an undergraduate)
- 15.700 Seminar in Chemistry (1)
- 15.797 Master's Thesis Research (6)

Analytical and Inorganic Chemistry
- 15.522 Interpretation of Spectra (3)
- 15.551 Topics in Inorganic Chemistry (3)
- 15.610 Advanced Analytical Chemistry (3)

Biochemistry
- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.564 Biochemistry III (3)

Organic Chemistry
- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

Physical Chemistry
- 15.546 Thermodynamics and Statistical Mechanics (3)
- 15.551 Topics in Inorganic Chemistry (3)
- 15.600 Advanced Physical Chemistry I (3)
- 15.601 Advanced Physical Chemistry II (3)
- 15.642 Chemical Kinetics (3)

Chemical Toxicology
- 15.504 Principles of Biochemistry (3) (will not count toward the Ph.D. in Chemical Toxicology or Biochemistry)
- 15.680 Chemical Mutagens and Carcinogens (3)
- 15.682 Toxicology Testing (3)
- 09.660 Mammalian Physiology and Pathology (3)
- 09.680 Introduction to Toxic Materials (3)

- One course in pharmacology that meets the approval of the toxicology program coordinator.

Note Also: See the Cooperative Education section of this publication for information concerning work-study research opportunities at affiliated institutions. A Master of Science in Health/Fitness Management is listed under Physical Education, Master of Science in Science Teaching (M.S.S.T.) is listed under Interdepartmental Science, and Master of Science in Technology of Management (M.S.T.M.) is listed under the Center for Technology and Administration.

Ph.D. in Chemistry

Admission to the Program

Applicants must have earned either (1) a degree equivalent to fulfilling the requirements for a B.S. in chemistry with a 3.00 cumulative grade-point average in chemistry from a college accredited by the American Chemical Society or (2) an M.S. or M.A. in chemistry. All applications must be approved by the faculty of the Department of Chemistry.

Applicants to the Chemical Toxicology program who do not meet the above requirements may be admitted providing that acceptable plans to remedy deficiencies in their chemistry backgrounds are agreed upon.

Tracks

Analytical and Inorganic Chemistry (joint program), Biochemistry, Chemical Toxicology, Organic Chemistry, Physical Chemistry.

Degree and Major Requirements

- A total of seventy-two semester hours of approved graduate work.

The entire course of study must constitute a unified program with specific major and minor fields and a proposed curriculum approved by the department's graduate evaluation committee and the chair of the department one semester after the student enters the program. The course program consists of a set of core courses supplemented by electives determined in consultation with the student's adviser or the graduate evaluation committee.

- Advancement to candidacy on completion of eighteen graduate semester hours in chemistry for students admitted with a B.S. or B.A. Students admitted from another university with an M.S. degree are required to file for advancement to candidacy on completing nine graduate semester hours in chemistry.
- Tool of research: examinations in two of the following: Russian, German, French, computer programming, and statistics. Those majoring in chemical toxicology must pass an examination in statistics as one of the tools.
- Four comprehensive examinations, two in the major field, one in the minor field, and one oral examination in defense of the dissertation proposal.
- A dissertation of publishable quality based on original chemical laboratory research and oral defense before the student's committee.

Course Requirements

- 15.507 Chemical Literature (1) (unless completed with a grade of B or better as an undergraduate)
- 15.520 Advanced Organic Chemistry I (3)
- 15.521 Advanced Organic Chemistry II (3)
- 15.550 Advanced Inorganic Chemistry (3) (unless completed with a grade of B or better as an undergraduate)
- 15.600 Advanced Physical Chemistry I (3)
- 15.601 Advanced Physical Chemistry II (3)
- 15.610 Advanced Analytical Chemistry (3)
- 15.700 Seminar in Chemistry (2)
- 15.799 Doctoral Dissertation Research (12–24)
- Electives determined by the student's choice of track (below):

Analytical and Inorganic Chemistry

- 15.504 Principles of Biochemistry (3)
  or
  15.560 Biochemistry I (3)
  15.561 Biochemistry II (3)
  15.564 Biochemistry III (3)
- 15.522 Interpretation of Spectra (3)
- 15.551 Topics in Inorganic Chemistry (3)
  or
  15.618 Topics in Analytical Chemistry (3)

Biochemistry

- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.564 Biochemistry III (3)
- 15.661 Enzyme Kinetics (3)

Organic Chemistry

- 15.522 Interpretation of Spectra (3)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)

Physical Chemistry

- 15.504 Principles of Biochemistry (3)
  or
  15.560 Biochemistry I (3)
  15.561 Biochemistry II (3)
  15.564 Biochemistry III (3)
- 15.546 Statistical Mechanics (3)
- 15.642 Chemical Kinetics (3)
- 51.570 Introduction to Quantum Mechanics (3)
- 51.572 Atomic Physics (3)
  or
  51.574 Introduction to Solid State Physics (3)

Chemical Toxicology

- 15.501 Principles of Analytical Chemistry (3) (if needed)
- 15.502 Principles of Physical Chemistry (3) (if needed)
- 15.560 Biochemistry I (3)
- 15.561 Biochemistry II (3)
- 15.564 Biochemistry III (3)
- 15.581 Principles of Toxicology (3)
  or
  09.680 Introduction to Toxic Materials (3)
- 15.680 Chemical Mutagens and Carcinogens (3)
- 15.682 Toxicological Testing (3)
- Pharmacology (3) (taken from the Consortium of Universities)

Note Also: See the Cooperative Education section of this publication for information concerning work-study research opportunities at affiliated institutions.

School of Communication

Dean Sanford J. Ungar

Full-Time Faculty

Professor L.B. Anderson, E.L. Bliss, Jr. (Emeritus), G.P. Harnden, J.A. Hendrix, F.J. Jordan, J.E. Orwant, R.T. Stout, R.E. Sutton, L.W. Wolfson, J.S. Yamauchi

Associate Professor J.C. Doolittle, J.S. Douglass, L.M. Furber, R.A. Streitmatter

Assistant Professor D.D. Bonafede, D.V. Meaney, J.S. Morrison, D.M. Stucker, S.E. Toppins, A.E. Zelle

Instructor V.J. Glenn

The goal of the School of Communication is to develop liberally educated, professionally trained communicators who are equipped intellectually and ethically to convey the issues of contemporary society.

A strong liberal arts background is emphasized by the school. To ensure that communication majors attain this background, twenty-seven semester hours in related courses outside the field of communication are required.

Students intending to major in communication complete three core courses during their freshman and sophomore years. Introduction to Mass Media, 17.100, is required during the freshman year and 17.200 Writing for Mass Communication, in the first semester of the sophomore year. As second-semester sophomores, Broadcast and Print Journalism students register for 17.203 American Journalism, Public Communication majors register for 17.201 Introduction to Interpersonal Communication, and Visual Media students enroll in 17.202 Visual Literacy.

Students begin one of the four professional programs in their junior year and take a series of carefully chosen skills courses. They also complete communication and media studies courses which examine the history, current issues, and future of communication and the media. (See "Courses of Instruction" for courses designated as media studies.) The ability to write correctly and clearly is stressed in all four professional programs.

The curriculum is carried out in the environment of Washington, D.C., the communications center of the world. The school draws heavily on the resources of the federal city for its adjunct faculty, for the material in its curriculum, and for involving students with Washington's communicators and communication facilities.

Prospective undergraduate students, including transfer students, are urged to write the School of Communication requesting a separate brochure on the undergraduate programs.

The three graduate programs, while more specialized, have the same general goals. A separate brochure on each is available.

B.A. in Communication

Admission to the Program

Students are encouraged to declare the major in Communication by the end of the sophomore year and no earlier than the end of the freshman year. The School of Communication requires of all applicants, including transfer students, a minimum cumulative grade-point average (GPA) of 2.5 (on a 4.0 scale) to declare an undergraduate major in Communication.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Program Tracks

Broadcast Journalism, Print Journalism, Public Communication, and Visual Media.

Major Requirements

- A total of sixty-three semester hours (sixty-six for Visual Media) with grades of C or better, including twenty-seven semester hours of related courses outside the field of communication.
- Program track requirements.

  Students in the Broadcast Journalism, Print Journalism, and Public Communication program tracks may take a maximum of 36 semester hours in communication courses. Students in the Visual Media program track may take a maximum of 48 semester hours. Both maximums include all School of Communication courses: introductory courses, professional courses, media studies courses, internships, independent study, and independent reading courses.

Course Requirements

Related Course Requirements

- Students complete the following courses outside the School of Communication: six semester hours in history, including at least three semester hours in American history; three semester hours in economics; three semester hours in government or international service; and a course from two of the following fields: anthropology, art (Visual Media majors only), biology, business, chemistry, foreign language, literature, performing arts (Visual Media majors only), philosophy, physics, psychology, and sociology. Students also complete nine more semester hours in courses at the 300 level chosen from one of the fields above.

  American history and economics are required of all majors, but a minor in any related requirement field (except

business) may be substituted for the remaining related requirements. If a student chooses a minor requiring less than twenty-one semester hours, additional courses from the disciplines listed above must be taken to fulfill the twenty-seven-semester-hour related requirement. This option also applies to a second major.

Broadcast Journalism

- 17.100 Introduction to Mass Media /S (3)
- 17.200 Writing for Mass Communication (3)
- 17.203 American Journalism (3)
- 17.320 Reporting (3)
- 17.333 Fundamentals of TV and VTR (3)
- 17.385 Broadcast Journalism I (3)
- 17.401 Legal Aspects of Communication (3)
- 17.428 Broadcast Journalism II (3)

- One of the following:
  17.432 Television News Production (3)
  17.433 Broadcast Delivery (3)
  17.521 Editorial Writing (3)

- Two more courses in communication and media studies. (See Media Studies (MS) in the course listings in this publication.)

- One of the following:
  17.490 Independent Study in Communication (3)
  17.491 Senior Internship (3)

  An additional professional course.

  An additional communication and media studies course.

Print Journalism

- 17.100 Introduction to Mass Media /S (3)
- 17.200 Writing for Mass Communication (3)
- 17.203 American Journalism (3)
- 17.320 Reporting (3)
- 17.322 Editorial Policies and Methods (3)
- 17.325 Feature Article Writing (3)
- 17.401 Legal Aspects of Communication (3)
- 17.425 Public Affairs Reporting (3)

- Two more courses in communication and media studies. (See Media Studies (MS) in the course listings in this publication.)

- Two of the following:
  17.430 Photography: The Lens and Image (3)
  or
  17.523 Intermediate Photography: Photojournalism (3)
  17.490 Independent Study in Communication (3)
  17.491 Senior Internship (3)
  17.521 Editorial Writing (3)

  An additional communication and media studies course. (See Media Studies (MS) in the course listings in this publication.)

Public Communication

- 17.100 Introduction to Mass Media /S (3)
- 17.200 Writing for Mass Communication (3)
- 17.201 Introduction to Interpersonal Communication (3)
- 17.436 Public Relations (3)
- 17.437 Public Relations Media (3)
- 17.446 Public Relations Case Studies (3)
- 17.550 Public Relations Programs (3)
- 17.580 Group Communication Management (3)
- 17.582 Public Communication Research (3)

- Three of the following:
  17.310 Public Speaking (3)
  17.325 Feature Article Writing (3)
  17.346 Audio Visual Communication (3)
  17.438 Speech Writing (3)
  17.490 Independent Study in Communication (3)
  17.491 Senior Internship (3)
  17.521 Editorial Writing (3)
  17.532 Publication Layout and Design (3)
  17.565 Organizational Communication (3)
  17.572 Nonverbal Communication (3)

  A communication and media studies course. (See Media Studies (MS) in the course listings in this publication.)

Visual Media

- 17.100 Introduction to Mass Media /S (3)
- 17.200 Writing for Mass Communication (3)
- 17.202 Visual Literacy (3)
- 17.430 Photography: The Lens and Image (3)
- 17.431 Basic Film and Audio Production (3)
- 17.434 Location Film and Video Production (3) and
- 17.435 Introduction to Studio Television (3)
- 17.482 Writing for Visual Media (3)

- Two to four of the following:
  17.456 Film I (3)
  17.464 Studio Television I (3)
  17.486 Video I (3)
  17.487 Advanced Production (3)
  17.490 Independent Study in Communication (3)
  17.491 Senior Internship (3)
  17.561 Advanced Writing for TV/Film (3)

Note: Students specializing in photography are not required to take 17.434 or 17.435 but must take 17.523, 17.525, and 17.529.

- Three visual media studies courses from the following:
  17.511 History of Documentary Film (3)
  17.512 Television Documentary (3)
  17.513 Business of Film (3)
  17.514 Censorship in Media (3)
  17.516 Special Topics in Visual Media and Culture (3)
  17.527 Photography: History and Aesthetics (3)
  17.558 History of Motion Pictures I /S (3)
  17.559 History of Motion Pictures II /S (3)
  17.599 New Communication Technology (3)
  23.375 Film and Literature (3)
  23.376 National Cinema (3)
  23.377 Popular Film Genres (3)
  23.378 Major Filmmakers (3)
  23.380 Independent Filmmakers (3)
  23.383 Film and Literature on World War II (3)

  One communication and media studies course. (See Media Studies (MS) in the course listings in this publication.)

Washington Journalism Semester

This special one-semester undergraduate program explores journalism as it exists and is practiced in Washington, D.C. The program studies the people, institutions, and issues of Washington journalism with guest speakers, field trips, and lectures, plus an internship and an elective course selected from regular offerings of the university. The program is open to students from colleges and universities across the country.

Admission to the Program

Requirements for admission to the program are: (a) at least a 2.50 grade-point average on a 4.00 scale; (b) either a journalism major or a liberal-arts major with some evidence of interest in journalism; and (c) second-semester sophomore standing or above. Selection is competitive.

Requirements

- 17.450 Washington Journalism Semester Seminar I (4)
- 17.451 Washington Journalism Semester Seminar II (4)
- 17.452 Washington Journalism Semester Internship (4)
- One additional course chosen from regular course offerings of the university.

B.A. in Foreign Language and Communication Media

Admission to the Program

Students are admitted to both the School of Communication and the Department of Language and Foreign Studies.

Program Tracks

French, German, Russian, or Spanish combined with Broadcast Journalism, Print Journalism, Public Communication, or Visual Media.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of fifty-four semester hours with grades of C or better.
- One of sixteen program tracks.

  French, German, Russian or Spanish combined with either Broadcast Journalism, Print Journalism, Public Communication, or Visual Media.

Course Requirements

- 17.100 Introduction to Mass Media /S (3)
- 17.200 Writing for Mass Communication (3)
- Three communication and media studies courses. (See Media Studies (MS) in the course listings in this publication.)
- Two of the following courses or approved substitutes:
  37.320 Introduction to French Culture (3)
  37.330 Introduction to German Culture (3)
  37.350 Introduction to Hispanic Culture (3)
- One course from the following:
  38.198 Language and Ethnicity (3)
  38.199 International Vocabulary (3)
  38.200 Language and Mind (3)
- Five professional courses in one of the four communication program tracks: Broadcast Journalism, Print Journalism, Public Communication, or Visual Media.
- Fifteen semester hours in the major language at the 300 level or above in the Department of Language and Foreign Studies.

Note: Competency at the intermediate level in the major language is necessary to fulfill the degree requirements.

B.A. in Communication, Legal Institutions, Economics, and Government (CLEG)

An interdisciplinary major in Communication, Legal Institutions, Economics, and Government is available. Consult the School of Government and Public Administration section of this publication.

Minor in Mass Media Studies

Designed for users and consumers of mass media, rather than for practitioners. Students wishing to minor in Mass Media Studies should consult the academic counselor in the School of Communication.

Requirements

- 17.100 Introduction to Mass Media /S (3)
- Five courses from the following with no more than two from Visual Media (17.511, 17.512, 17.513, 17.514, 17.516, 17.527, 17.558, 17.559):
  17.401 Legal Aspects of Communication (3)
  17.503 Mass Media and Society /S (3)
  17.508 The Media and Government (3)
  17.509 Politics and the Media /S (3)
  17.511 History of Documentary Film (3)
  17.512 Television Documentary (3)
  17.513 Business of Film (3)
  17.514 Censorship in Media (3)
  17.516 Special Topics in Visual Media and Culture (3)
  17.527 Photography: History and Aesthetics (3)

17.530 Broadcast Operations and Management (3)
17.531 International Communications Systems /S (3)
17.538 Contemporary Media Issues /S (3)
17.540 American Newspapers (3)
17.542 American Magazines (3)
17.545 Business and Economic Journalism (3)
17.558 History of Motion Pictures I /S (3)
17.559 History of Motion Pictures II /S (3)
17.599 New Communication Technology (3)

Washington Journalism Institute for High School Students

This special two-week summer program teaches high-school students journalistic writing and editing, with emphasis on production of student newspapers, and introduces them to government in action in the nation's capital. Students are exposed to a wide range of cultural activities in Washington, D.C. as part of the program.

Students earn two semester hours of undergraduate credit that can be applied toward the requirements for an undergraduate degree.

Admission to the Program

Students are carefully selected on the basis of their grades, their writing ability, and the recommendation of their teachers.

Requirement

- 17.199 Washington Journalism Institute for High-School Students (2)

M.A. in Communication: Journalism and Public Affairs

Admission to the Program

An undergraduate grade-point average of 3.00 (on a 4.00 scale) for the last sixty semester hours of study and 3.00 in the major are required for admission. Previous professional or campus experience in communication is useful but is not required. However, all applicants are required to show evidence of professional commitment and career direction related to print or broadcast journalism.

Admission is for full-time students and for the fall semester only. The student is expected to complete this program (thirty semester hours) within a ten-month period.

Address initial inquiries to the Graduate Journalism Admissions Committee, School of Communication, The American University, Washington, D.C. 20016.

The school will send a brochure that contains both a more detailed description of the purpose and content of the graduate program and an application form which includes a request for a 1,000-word essay on the applicant's reasons for wanting to pursue graduate study in journalism. The form and essay should be sent directly to the Graduate Journalism Admissions Committee, School of Communication, The American University. Along with the essay, applicants also should send directly to the committee, samples of published professional or college newswriting or scripts or tapes, if available.

Potential applicants will also be sent a packet under separate cover from the university's admissions office. The packet contains additional information relating to graduate study generally at The American University, a second application form, and two reference forms. That application and the reference forms should be sent to the university's Office of Admissions. Applicants must have transcripts sent directly to the Office of Admissions from all colleges or universities attended.

Interviews are not required but may be requested by the school. The program has a limited number of graduate teaching assistantships available each year.

Inquiries about financial aid other than assistantships and general information relating to The American University should be addressed to the Office of Financial Aid.

Program Tracks

Broadcast Journalism and Print Journalism.

Degree and Major Requirements

- A total of thirty semester hours of approved graduate work in journalism. Students may seek permission of the program director to substitute for journalism courses three to six hours of graduate study in an area related to public affairs (500 level or above).
- Broadcast or print track.
- A grade-point average of 3.0 maintained during all work toward the degree.
- Continuous full-time registration.
- One comprehensive examination, 17.001 General Communication and Journalism.

Course Requirements

Broadcast Journalism

- 17.601 Legal Aspects of Communication (3) (see note 1 below)
- 17.624 Principles and Practice of Journalism (3) (see note 2 below)
- 17.632 Television News Production (3)
- 17.710 Seminar in Public Affairs (3) (with a grade of B or better)
- 17.721 Broadcast News I (3)
- 17.722 Broadcast News II (3) (with a grade of B or better)
- 17.724 Reporting of Public Affairs (3)
- Up to twelve hours from the following, with approval of adviser:
  17.502 Investigative Reporting (3)
  17.503 Mass Media and Society (3)
  17.508 The Media and Government (3)
  17.521 Editorial Writing (3)
  17.530 Broadcast Operations and Management (3)
  17.540 American Newspapers (3)
  17.542 American Magazines (3)
  17.545 Business and Economic Journalism (3)

17.596 Selected Topics (Nonrecurring) (3)
17.599 New Communication Technology (3)
17.633 Broadcast Delivery (3)
17.690 Independent Study Project in Communication (3)
17.691 Graduate Internship (3)

Three to six hours in an area of graduate study related to public affairs may be substituted for one or two journalism electives with the permission of the program director. Possible areas might include political science, public administration, history, economics, the range of social sciences.

Print Journalism

- 17.601 Legal Aspects of Communication (3) (see note 1 below)
- 17.621 Advanced Copy Editing (3) (see note 3 below)
- 17.624 Principles and Practice of Journalism (3) (see note 2 below)
- 17.636 Washington Reporting (3)
- 17.710 Seminar in Public Affairs (3) (with a grade of B or better)
- 17.720 Seminar in Journalism (3) (with a grade of B or better)
- 17.724 Reporting of Public Affairs (3)

- Up to twelve hours from the following with approval of adviser:
  17.502 Investigative Reporting (3)
  17.503 Mass Media and Society (3)
  17.508 The Media and Government (3)
  17.521 Editorial Writing (3)
  17.540 American Newspapers (3)
  17.542 American Magazines (3)
  17.545 Business and Economic Journalism (3)
  17.596 Selected Topics (Nonrecurring) (3)
  17.599 New Communication Technology (3)
  17.690 Independent Study Project in Communication (3)
  17.691 Graduate Internship (3)

  Three to six hours in an area of graduate study related to public affairs may be substituted for one or two journalism electives with permission of the program director. Possible areas might include political science, public administration, history, economics, the range of social sciences, and international relations.

Course Requirement Notes

1. Students who have earned a B or better in a news media law course within five years of enrollment may petition to be exempted from 17.601 Legal Aspects of Communication.

2. Students with insufficient news writing and reporting experience or with insufficient familiarity with American journalism must take 17.624 Principles and Practice of Journalism before entering the program. This course, usually offered in August, does not count for credit in the thirty semester hours required for the major.

3. Students with extensive professional editing experience may petition to be exempted from 17.621 Advanced Copy Editing.

Special Opportunities

The program draws heavily on the resources of Washington, D.C. for both professional field work and classroom study. Students are encouraged to take a professional internship.

M.A. in Film and Video

Offered jointly by the School of Communication and the Department of Literature.

Admission to the Program

An undergraduate grade-point average of 3.00 (on a 4.00 scale) for the last two years of study is required. Previous exposure to film study, film and video production, or script writing is not required, although all applicants are required to show evidence of professional commitment and career direction related to their program of study. Students without experience in photography and film or video production at the undergraduate level are required to take 17.630 and 17.631 prior to or at the beginning of the regular program. These courses do not count toward the thirty-three semester hours required for the degree.

Admission is not limited to full-time students, however students must be free to take the bulk of their course work during the day. Students will normally be expected to complete the program (thirty-three semester hours) within a twenty-four month period.

A graduate application packet and a graduate film and video program brochure are available on request. The brochure describes two letters of recommendation and a thousand-word statement of purpose required of all applicants to this program and provides a more detailed explanation of the purpose and content of the program. The statement of purpose should be sent to the committee of the master's program in film and video. The letters should be sent directly to the Office of Admissions, The American University, Washington, D.C. 20016.

Further inquiries should be addressed to the School of Communication, Graduate Film and Video Program.

Degree and Major Requirements

- A total of thirty-three semester hours of approved graduate work.

  Courses are selected from the following areas, with emphasis determined by the student's interest: film production; video production; film theory, history, and criticism; and script writing.

  While a student may emphasize one of these areas in the design of an individual program, the program must include courses from all four areas. A student's program may also include courses in related areas such as performing arts.

- One comprehensive examination, 17.004 Film and Video.

- Six semester hours in thesis research (thesis option) or, in the case of students specializing in the areas of script writing or production, six hours involving an original creative work (nonthesis option). A grade of B or better

is required in those courses taken for the thesis or nonthesis option.

Note also: Film and video courses in the School of Communication and in the Department of Literature.

M.A. in Economic Communication

Offered jointly by the School of Communication and the Department of Economics.

Admission to the Program

An undergraduate grade-point average of 3.00 (on a 4.00 scale) for the last sixty hours of study is required. Previous professional or academic experience in communication or economics is useful but not required. However, all applicants are required to show evidence of professional commitment.

A thousand word statement is required of all applicants.

Admission is for full-time students and for the fall semester only.

A student will normally be expected to complete the thirty-six-hour program within a twenty-four-month period.

A graduate application packet and a program are available on request. Address inquiries to the Director, Graduate Program in Economic Communication, School of Communication, The American University, Washington, D.C. 20016.

Degree and Major Requirements

- A total of thirty-six semester hours of approved graduate work and a 3.00 grade-point average in economics and communication courses.
- One comprehensive examination requiring a demonstration of proficiency in economics and communication.
- Nonthesis option: Three of the six hours of nonthesis option are taken in the form of a graduate internship, drawing on the professional opportunities in Washington. The remaining three hours of nonthesis option are earned in a seminar in economic communication, supervised jointly by faculty members of the Department of Economics and the School of Communication, in which a major work is produced: film, written report, or broadcast of a topic in economics.

Course Requirements

Prerequisite Courses

- 19.603 Introduction to Economic Theory (3)
- 17.624 Principles and Practice of Journalism (3)

These courses do not count toward the thirty-six hours required for the degree, and one or both of them may be waived for students with equivalent background.

Core Courses

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 17.724 Reporting of Public Affairs (3)
- 17.545 Business and Economic Journalism (3)
- 17.601 Legal Aspects of Communication (3)
- Two economics courses approved by the graduate program adviser.
- Two communication courses approved by the graduate program adviser.

Public Communication

The School of Communication is in the process of developing a graduate program in Public Communication, which will replace the M.S. in Public Relations Management previously offered by the Kogod College of Business Administration.

This program will require a minimum of thirty semester hours of course work, plus a comprehensive examination, leading to the M.A. degree. It will be available to both full- and part-time students, with some courses taught during the day and some at night, but all on the American University campus.

Possible areas of specialization within the program will include public interest communication, corporate communication, government communication, and arts communication.

The program may begin as early as September 1987, but for confirmation of this plan, application materials, and other information, please write to: Director, Graduate Program in Public Communication, School of Communication, The American University, 4400 Massachusetts Avenue NW, Washington, DC 20016.

Faculty of Community Studies

Director Rhoda G. Welt

Director, Latino Institute Rhoda G. Welt

Coordinator, Latino Institute Gloria Ulloa

Full-Time Faculty

Associate Professor R.S. Ralph

Assistant Professor E.C. Smith

The Faculty of Community Studies of the School of Education offers a thirty-semester-hour undergraduate Certificate in Community Development. Students may continue on to fulfill the requirements for Associate of Arts or bachelor's degree or both. The program draws together the resources of an urban university and the community, emphasizing traditional academic disciplines. All courses are fully accredited, transferable, and open to all university students.

The curriculum is designed to meet the educational needs of adults who seek professional or personal advancement through full-or part-time study, credit or noncredit. Aca-

demic and diagnostic counseling services are available to assist students in planning their academic programs. An orientation and study-skills workshop is available. The required curriculum meets the needs of students who have been out of school for a number of years.

Community Studies provides tuition aid for students enrolled in the Community Studies program who meet the following criteria: clearly defined financial need, high-school graduation or the equivalent, and at least one year's residency in the Washington, D.C., metropolitan area.

Latino Institute

The Latino Institute actively seeks qualified members of the metropolitan Hispanic community for admission to Community Studies. Tuition aid is available.

Certificate in Community Studies

The Certificate in Community Studies includes four Community Studies courses (12 semester hours), the balance of the thirty semester hours to be completed from the general university offerings. Some required courses may be waived by examination or permission of adviser.

Admission to the Program

Students must be approved by the department for formal admission to the program. Criteria used to determine admission and placement include the completed application form, standardized tests, an essay, and a personal interview.

Requirements

- A total of thirty hours.
- Six semester hours of required English.
- Twelve semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Course Requirements

- 71.101 Communications I (3)
- 71.102 Communications II (3)
- 71.104 Critical Reading and Thinking (3)
- 71.108 Introduction to the Social Sciences (3)
- 41.121 Basic Arithmetic (1)
- 41.122 Basic Algebra (2)
- Four courses from the distributive education offerings.

Computer Science

Chair Austin M. Barron

Full-Time Faculty

Professor J. Blum, D.S. Crosby, M.W. Gray, R.A. Holzsager, R.W. Jernigan, B.P. Korin, A. Wu

Associate Professor A.M. Barron, I.L. Chang, L.J. Crone, M. Greene

Assistant Professor E. Adams, N. Baya'a, J. Bieler, M. Frame, R. Knaus, C. McCreary, M. Owrang

Instructor L. Hayden

The Department of Mathematics, Statistics, and Computer Science combines the resources and knowledge of these related disciplines. This enables the department to offer unusually varied and flexible programs. A student with an interest in the mathematical sciences may choose a program within the department and later change his or her emphasis without a great loss of time because the programs share a common core.

The university's Washington, D.C., location affords the student access to many governmental, cultural, scientific, and historical institutions. These institutions serve as an important research resource. In addition, they are a source of full-time and part-time employment opportunities for students with a firm grounding in the mathematical sciences.

Computer Science—within the Department of Mathematics, Statistics, and Computer Science—is directed at the theory and technology of computation itself. It is the science of information and of the structures that communicate, store, and process information. Whether one studies the machine (hardware) or the instructions fed to the machine (software), the fundamental concepts are similar.

The objects of study by computer scientists are artificial systems, structures that are purposefully designed; thus, design assumes a role equal in importance to analysis. Design is a creative activity, but also a systematic one. The computer science program at The American University ensures a balanced presentation of the practical and theoretical aspects of computer science. The program provides students with a background which may form the basis for graduate study or for professional employment as a systems programmer, systems analyst, scientific programmer, or application programmer.

Undergraduate Honors Program

Departmental honors are available for qualified undergraduates with majors in mathematics, applied mathematics, statistics, and computer science. Requirements include an overall 3.20 grade-point average, a 3.60 grade-point average in the major, certain course requirements, and a research project and honors paper. Interested students should consult the chair of the Department Honors Committee for details.

Special Opportunities

The department employs a number of its undergraduates in its tutoring lab and in the computer labs. The department

also offers a limited number of book scholarships to its undergraduates. Applications should be submitted by the end of July preceding the academic year for which aid is requested. Work-study awards are also available. For more information, consult the financial aid office.

B.S. in Computer Science

Admission to the Program

Requires a 2.00 cumulative grade-point average, the completion of 41.221 and 41.222 with grades of C or better, and completion of 40.280, 40.281, and 40.282 with grades of C or better.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A minimum of seventy-three semester hours with grades of C or better.

Course Requirements

- 40.280 Introduction to Computer Science I /N (4)
- 40.281 Introduction to Computer Science II /N (3)
- 40.282 Assembly-Language Programming (4)
- 40.330 Organization of Computer Systems (3)
- 40.340 Data Structures and Algorithms (3)
- 40.341 Organization of Programming Languages (3)
- 40.350 Introduction to Discrete Structures (3)
- 40.365 Introduction to Operating Systems (3)
- 40.382 Automata, Languages, and Computability (3)
- 41.221 Calculus I /N (4) and
- 41.222 Calculus II /N (4)
- 41.310 Linear Algebra (3)
- 42.202 Basic Statistics /N (4)

- At least five additional courses approved by the student's adviser from the following list:
  - 40.320 Introduction to File Design (3)
  - 40.396 Selected Topics (Nonrecurring) (3)
  - 40.460 Introduction to Numerical Methods (3)
  - 40.541 Computer Architecture (3)
  - 40.546 Introduction to Computer Networks (3)
  - 40.550 Discrete Structures (3)
  - 40.560 Microcomputer Architecture (3)
  - 40.565 Operating Systems (3)
  - 40.566 Introduction to Compilers (3)
  - 40.568 Artificial Intelligence (3)
  - 40.570 Data Management Systems (3)
  - 40.582 Formal Languages and Automata (3)
  - 40.584 Computer Graphics (3)
  - 40.596 Selected Topics (Nonrecurring) (3)
  - 41.563 Selected Topics in Numerical Analysis (3)
- A two-semester sequence of laboratory science. Recommended sequence:
  - 51.218 College Physics I /N (3)
    or
    51.220 University Physics I /N (3)

    51.219 College Physics II /N (3)
    or
    51.221 University Physics II /N (3)

    51.222 General Physics Laboratory I (2)
    51.223 General Physics Laboratory II (2)

  Students may enroll in chemistry or biology courses with a laboratory component as follows:
  - 15.120 General Chemistry I /N (3) and
  - 15.121 General Chemistry I Laboratory (1)

  - 15.130 General Chemistry II /N (3) and
  - 15.131 General Chemistry II Laboratory (1)
    or
  - 09.101 General Biology I Lecture /N (3) and
  - 09.103 General Biology I Laboratory (1)

  - 09.102 General Biology II Lecture /N (3) and
  - 09.104 General Biology II Laboratory (1)

  as approved by adviser.

  Two additional quantitative courses chosen with a computer science adviser's approval from mathematics, statistics, biology, chemistry, physics, psychology, accounting, and economics.

Minor in Computer Science

Requirements

- 40.280 Introduction to Computer Science I /N (4)
- 40.281 Introduction to Computer Science II /N (3)
- 40.282 Assembly-Language Programming (4)
- 40.340 Data Structures and Algorithms (3)
- 40.341 Organization of Programming Languages (3)

- 41.211 Applied Calculus I /N (4)
  or
  41.221 Calculus I /N
- One additional course numbered 40.3xx or above.

Five-Year Programs

Admission to Programs

The five-year programs enable qualified undergraduates (students with a grade-point average of 3.2 on a 4.0 scale in major courses) to earn both a bachelor's and a master's degree within five years. There are two options available: the

student may choose the same major at the undergraduate and graduate level, or the student may enter the master's program in computer science with an undergraduate major in mathematics. All students should apply by the end of the junior year.

B.S./M.S. in Computer Science

Degree and Major Requirements

- A minimum of eighty-two semester hours of course work.
- An approved tool of research.
- Comprehensive examination.
- Thesis option: Six hours of 40.797 Master's Thesis Seminar in Computer Science and an oral defense of the thesis.

  Nonthesis option: Six hours of independent research project, seminar, or other research courses approved by the department.

Course Requirements

- All of the requirements for the B.S. degree with a major in computer science.
- Six computer science courses at the 500 level or above (not including 40.520 or 40.521).
- Six hours of course work to fulfill the thesis or nonthesis option.

B.S./M.S. in Mathematics and Computer Science

For a description of this program, see "Mathematics" in this publication.

M.S. in Computer Science

Admission to the Program

Requires an adequate undergraduate preparation or experience in computer science. Students entering the program without the appropriate background will be expected to take certain undergraduate courses as prerequisite work.

Degree and Major Requirements

- A total of thirty semester hours of approved graduate work.
- Mathematics, statistics, French, German, or Russian as a tool of research.
- Comprehensive examination, 40.060.
- Thesis option: Six hours of 40.797 Master's Thesis Seminar in Computer Science and an oral defense of the thesis.

  Nonthesis option: Six hours of independent research project, seminar, or other research courses approved by the department.

Course Requirements

- 40.520 Algorithms and Data Structures (3) (or equivalent)
- 40.521 Design and Organization of Programming Languages (3) (or equivalent)
- 40.540 Computer System Organization and Programming (3)
- Three additional computer science courses at the 500 level or above.
- Two additional courses in computer science, mathematics, statistics, or a related field, as approved by the department chair.
- Six semester hours of course work to fulfill the thesis or nonthesis option.

Course selections are subject to advance approval by the student's adviser.

M.S. in Statistical Computing

For a description of this program, see "Statistics" in this publication.

Economics

Chair Nancy S. Barrett

Full-Time Faculty

Professor N. Barrett, W.D. Bowles, T.F. Dernburg, J. Epstein, W. Hunsberger (Emeritus), R. Müller, L. Sawers, F. Tamagna (Emeritus), P.C. Thanh, H.M. Wachtel, A. Waterston (Emeritus), J.H. Weaver, J. Weeks

Associate Professor I.E. Broder, R. Hahnel, J. Willoughby, J.D. Wisman

Assistant Professor R. Blecker, D. Figart, P.R. Flacco, B.G. Kroetch, S.C. Mathur

Instructor T. Husted, J.K. Quinn, J. Sheridan, G. Stevenson

Visiting Professor H.A. Black

The Department of Economics at The American University emphasizes economic studies that enable graduates to participate actively in the process of finding answers to the important economic questions that face our society and other nations of the world. Emphasis is placed on viewing economic problems in both their domestic and international contexts.

Our location in Washington, D.C., enables us to offer students employment and internships in several of the world's most important economic institutions, including the World Bank; the International Monetary Fund; and the treasury, labor, and commerce departments. Many of our graduates are able to find policy-making positions in the public and private sectors of both the United States and other nations.

Because there is no consensus about the answers to economic problems, the Department of Economics has adopted a pluralistic approach to economics education that includes neoclassical and Keynesian economics, historical and institutional economics, and political economy. The neoclassical and Keynesian traditions form the core of economic theory that our majors are expected to master. Economic history, the history of economic thought, and economic methodology are part of our historical and institutionalist approach to the study of economics. Marxian economic theory, neo-Ricardian economic theory, and post-Keynesian economics form the basis for the theoretical approach which we call political economy. Courses in specialized fields of economics are usually taught from the perspective of more than one of these categories in economic theory.

Washington Semester in Economic Policy

This special one-semester program draws on the unique environment of Washington, D.C., to introduce students to governmental policy making as it relates to international and domestic economic policy through seminars, internships, and research. Students earn undergraduate credit which may be applied toward the requirements for a bachelor's degree.

Admission to the Program

The program is open to students of The American University and to students of affiliated institutions from across the country. Requirements for admission to the program are: (1) nomination by a Washington Semester faculty representative; (2) minimum 2.50 grade-point average on a 4.00 scale; (3) introductory courses in economics; and (4) at least second-semester sophomore standing at the time of participation.

Requirements

- 19.393 Washington Economic Policy Semester Seminar I (4)
- 19.394 Washington Economic Policy Semester Seminar II (4)

- 19.390 Independent Reading Course in Economics (4)
  or
  19.391 Washington Economic Policy Semester Internship (4)

- One course from the regular university evening offerings.

Undergraduate Programs

There are two economics majors: one in Economic Theory and the other in Economics. The Economic Theory major is a rigorous study of economic theory, econometrics, and quantitative skills and is designed to prepare the student for a research position or graduate work in economics. The Economics major combines economic theory with applied fields and is particularly designed to allow the student the flexibility of a double major with other departments in the College of Arts and Sciences, the School of International Service, the Kogod College of Business Administration, the School of Government and Public Administration, and the School of Communication.

Admission

The department counsels freshman and transfer students. Formal admission to the major requires a 2.00 grade-point average and approval of the department undergraduate adviser.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

B.A. in Economic Theory

Major Requirements

- A total of fifty-three semester hours with grades of C or better.

Course Requirements

- 19.101 Introduction to Economics I (Macro) /S (3)
- 19.102 Introduction to Economics II (Micro) /S (3)
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- 19.306 Money and Banking (3)
- 19.310 Introduction to Econometrics (3)

- One of the following:
  19.311 International Economics /S (3)
  19.371 International Economics: Trade (3)
  19.372 International Economics: Finance (3)

- One of the following:
  19.308 History of Economic Development /S (3)
  19.317 Political Economy (3)
  19.320 History of Economic Ideas (3)

- 41.211 Applied Calculus I /N (4)
  or
  41.221 Calculus I /N (4)

- 40.260 Introduction to Computing /N (4)
  or
  40.280 Introduction to Computer Science I /N (4)

- Four courses from department offerings at the 300 level or above.

Of these four, no more than two courses (six credits) may be fulfilled using any combination of the following: Washington Economic Policy Semester, Economic Honors, and economics courses from American University Study Abroad programs. Independent study and reading courses require special permission from the undergraduate adviser. Internships and co-ops will *not* count toward this requirement.

- Three courses from the 300 level or above selected from the following fields with not more than two courses in any field: anthropology, business, communication, government, history, international relations, justice, sociology, philosophy (but not religion), psychology, and mathematics (41.212, 41.222, and 40.281 apply toward this requirement).

B.A. in Economics

Major Requirements

- A total of forty-six semester hours with grades of C or better.

Course Requirements

- 19.101 Introduction to Economics I (Macro) /S (3)
- 19.102 Introduction to Economics II (Micro) /S (3)
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)
- 42.202 Basic Statistics /N (4)

- Five courses from department offerings at the 300 level or above.

  At least one course must be related to the economics of other countries or international economics. Students may take up to six semester hours using Washington Economic Policy Semester, economics courses from American University Study Abroad programs or the Economics Honors program. Independent reading and study courses require special permission of the undergraduate adviser. Internships and co-ops will *not* count toward this requirement.

- Five courses from the 300 level or above selected from the following fields, with no more than three courses from any one: anthropology, business administration, communication, government, history, international relations, philosophy (but not religion), psychology, justice, sociology, and mathematics (calculus and computing courses offered at the 200 level apply towards this requirement).

Recommendations

41.211 Applied Calculus I /N (4)
41.212 Applied Calculus II /N (3)
19.310 Introduction to Econometrics (3)
19.306 Money and Banking (3)
19.311 International Economics /S (3)

Students interested in particular areas may take certain courses to develop a concentration:

Political Economy
19.302 Comparative Economic Systems /S (3)
19.317 Political Economy /S (3)
19.321 Industrialization, Work, and Workers in the United States /S (3)
19.322 Marxist Economics (3)

Domestic Policy
19.304 Labor Economics /S (3)
19.306 Money and Banking (3)
19.309 Public Economics /S (3)
19.312 Industrial Organization (3)

International and Development
19.307 Political Economy of Economic Development /S (3)
19.308 History of Economic Development /S (3)
19.311 International Economics /S (3)

Special Opportunities

Honors: Students may enroll in 19.498 Economics Honors I (3) and 19.499 Economics Honors II (3). In these courses the student undertakes individual readings and research projects under the guidance of a faculty member. A student can graduate with Honors in Economics on completion of at least three semester hours of honors work. For further eligibility requirements and details, see the department's undergraduate adviser.

A chapter of Omicron Delta Epsilon, the economics honor society, is active on campus. Membership requires a 3.25 GPA overall and a 3.50 GPA in economics courses. See the undergraduate adviser for further eligibility requirements.

Minor in Economics

Requirements

- 19.101 Introduction to Economics I (Macro) /S (3)
- 19.102 Introduction to Economics II (Micro) /S (3)
- 19.300 Price Theory (3)
- 19.301 Income Theory (3)

- Six additional semester hours in economics at the 300 level or above (not including independent study, Washington Semester courses, internships, or co-ops).

Graduate Programs

There are three master's programs in economics: M.A. in Economics, M.A. in Applied Economics, and M.A. in Development Banking. There is an interdisciplinary M.A. in Economic Communication with special requirements listed under that program description (See School of Communication in this publication). There is a Ph.D. in Economics with tracks in Economics and Political Economy.

Admission to the Master's Programs

Requires a bachelor's degree from an accredited college or university, at least a 3.00 cumulative grade-point average (on a 4.00 scale) in the undergraduate program, and two letters of recommendation. The Graduate Record Examination

is recommended. Admission is not automatic for students who qualify and may be limited by programmatic constraints.

A student whose undergraduate background does not meet the standards for admission may be considered for admission after completing twelve semester hours of approved graduate course work in nondegree status with at least a 3.00 grade-point average. 19.500 Price Theory and 19.501 Income Theory must be taken within these twelve hours.

M.A. in Economics

Degree and Major Requirements

- A total of thirty semester hours of approved graduate work.

  Course work includes nine hours of core requirements, at least six hours of course work within one field of concentration, fifteen hours of electives, including six hours of research. Prerequisite credit does not count toward the degree. All courses must be taken for grades (the pass/fail option is not permitted).

  No more than forty percent of course work and no more than six hours of independent study or reading courses (exclusive of thesis hours) may be taken with any one professor.

- Two comprehensive examinations: a theory examination based on 19.500 and 19.501 and a field examination based on courses in their field of specialization. Candidates are expected to take the theory examination before they have completed their first eighteen semester hours. Candidates are expected to take the field examination after passing their theory examination and before completing twenty-four semester hours. Students may take each comprehensive twice. Fields are listed under the Ph.D. program.

- Thesis or two nonthesis seminars or two independent research projects which have been approved as a nonthesis option, or one seminar and one independent research project, with a minimum grade of B.

Course Requirements

Prerequisite Courses

19.300 Price Theory (3)
19.301 Income Theory (3)

(19.603 Introduction to Economic Theory (3) may be substituted for 19.300 and 19.301)
42.202 Basic Statistics /N (4)
41.211 Applied Calculus /N (4)

Waiver of these prerequisites may be granted for well-qualified persons with comparable prior education or experience. No graduate credit is given for these courses.

Core Courses

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)

- One of the following:
  19.522 Econometrics (3)
  19.722 Statistical Foundations of Econometrics (3)
  19.723 Econometric Methods (3) (or an approved substitute)

  19.500, 19.501, and 19.522 (or approved substitute) must be completed within the first twelve semester hours with grades of B or better.

  19.521 Mathematical Economic Analysis (3) is recommended.

- At least six semester hours in a field of concentration.

- Fifteen semester hours including six hours in thesis or nonthesis seminars or independent research with grades of B or better.

M.A. in Applied Economics

Degree and Major Requirements

- A total of thirty-three semester hours of approved graduate work.

  Course work includes nine hours of core requirements, at least six hours of course work within one field of concentration, eighteen hours of electives, including six hours of research. Prerequisite credit does not count toward the degree. All courses must be taken for grades (not pass/fail).

  No more than forty percent of course work and no more than six hours of independent study or reading courses (exclusive of thesis hours) may be taken with any one professor.

- One comprehensive examination in the student's field of specialization. Students are expected to make their first attempt at their field comprehensive before they have completed twenty-four semester hours. Two retakes are allowed. Fields are listed under the Ph.D. program.

- Research seminar or independent research with a grade of B or better is required.

Course Requirements

Prerequisite Courses

19.300 Price Theory (3)
19.301 Income Theory (3)

(19.603 Introduction to Economic Theory (3) may be substituted for 19.300 and 19.301.)

42.202 Basic Statistics /N (4)
42.211 Applied Calculus /N (4)

Waiver of these prerequisites may be granted for well-qualified persons with comparable prior education or experience. No graduate credit is given for these courses.

Core Courses

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)

- One of the following:
  19.522 Econometrics (3)
  19.722 Statistical Foundations of Econometrics (3)
  19.723 Econometric Methods (3) (or an approved substitute)
- At least six semester hours in a field of concentration.
- Eighteen semester hours in electives approved by the faculty adviser, including six semester hours of research seminar or independent research with grades of B or better. Students must maintain a B average in all graduate course work.

M.A. in Development Banking

Degree and Major Requirements

- A total of thirty-six semester hours of approved graduate work.

  Course work includes twenty-seven semester hours of core courses and nine semester hours in an area of concentration. Foundation requirement credit does not count toward the degree.

  No more than forty percent of course work and no more than six hours of independent study or reading courses (exclusive of thesis hours) may be taken with any one professor.
- One of two areas of concentration.

  Choice of concentration depends on the student's goals, location, interests, and, if applicable, the needs of the student's sponsoring organization. In certain cases, with the recommendation of the concerned faculty member and the approval of the program adviser, students may substitute a course from outside the concentration for one of their courses in an area. Students choose three courses from among those offered in the chosen area of concentration. At least one of the courses must be a workshop and one a research seminar.
- One comprehensive examination covering both core courses and those from the student's concentration area. Two retakes are allowed. Fields are listed under the Ph.D. program.

  Students should consult the director during the semester before scheduling the comprehensive examination.
- Research projects in two 700-level seminars or independent study research projects, with prior approval of the program director.

Course Requirements

Foundation Requirements

19.306 Money and Banking (3)
14.603 Accounting Concepts and Applications (3)

19.603 Introduction to Economic Theory
or
19.300 Price Theory (3) and
19.301 Income Theory (3)

42.202 Basic Statistics /N (4)
or
19.310 Introduction to Econometrics (3)

Waiver of these foundation requirements may be granted for well-qualified persons.

Core Courses

- 13.605 Financial Management (3)
- 13.671 Financial Management of Depository Institutions (3)
- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.510 Cost-Benefit Analysis (3)
- 19.522 Econometrics (3)
- 19.525 Political Economy of International Finance (3)
- 19.533 Development Banking (3)
- 19.560 Economic Development (3)

Areas of Concentration

Development Lending
- 19.561 Development Planning (3)
- 19.788 Seminar in Economic Development (3)
- 19.633 Development-Project Cycle (3)
- 19.634 Negotiating Development Loan Contracts (3)

Development Financing
- 13.665 Financial Statement Analysis (3)
- 19.531 Financial Markets (3)
- 19.550 International Economic Theory (3)
- 19.784 Seminar in International Trade and Finance (3)
- 19.635 International Capital Markets Workshop (3)

Research

- Six semester hours in two 700-level seminars or independent study projects with approval of the program director. Seminars taken for the concentration area requirement may be used to satisfy the research requirement.

M.A. in Economic Communication

This degree program is offered jointly by the School of Communication and the Department of Economics.

For a description of the program, see the section for the School of Communication in this publication.

Ph.D. in Economics

Admission to the Program

Two letters of recommendation are required. In addition, the Graduate Record Examination general tests (verbal, math, analytical) are required; the GRE subject test in economics is recommended. Applicants who are not native speakers of English must submit the results of TOEFL (Test of English as a Foreign Language). In general, a B average for previous undergraduate work or a B+/A− average for previous graduate work, whichever is more recent, is the minimum required. (Most students admitted have higher

grade averages.) As a rule, students are admitted for the fall semester only; application must be made by the previous February 1.

Tracks

Economics and Political Economy.

Degree and Major Requirements

- A total of seventy-two semester hours of approved graduate work.

  No more than forty percent of course work and no more than six hours of independent study or reading courses (exclusive of thesis hours) may be taken with any one professor.

- Tools of research:
  19.504 Economic Thought (3)
  19.521 Mathematical Economic Analysis (3)

  19.507 American Economic Development (3)
  or
  19.508 European Economic Development (3)

  Economics track students must also take:
  19.722 Statistical Foundations of Econometrics (3)
  19.723 Econometric Methods (3)

  Political economy track students must also take one of the following:
  19.522 Econometrics (3)
  19.722 Statistical Foundations of Econometrics (3)
  19.723 Econometric Methods (3)

- An oral qualifying examination in economic theory no later than one semester before the comprehensive examinations are taken. This examination is waived for students who have completed certain theory courses. See adviser for details.

- Four comprehensive examinations:

  Economics track: Four comprehensive examinations are required: 19.01B, 19.01C, and comprehensive examinations in two elective fields.

  Political Economy track: Four comprehensive examinations are required: 19.006, 19.06A, and comprehensive examinations in two elective fields.

  Comprehensive Examination Fields: 19.01A Contemporary Economic Theory: General (required of all M.A. students); 19.01B Contemporary Economic Theory: Price; 19.01C Contemporary Economic Theory: Income; 19.002 History of Economic Thought; 19.005, History of Economic Development; 19.006 Theory of Political Economy I; 19.06A Theory of Political Economy II; 19.007 Economic Growth and Development; 19.07A Economic Development Policy (not open to students in the Department of Economics); 19.008 Labor Economics; 19.009 International Economics; 19.011 Comparative Economic Systems and Soviet-type Economies; 19.013 Monetary Economics; 19.014 Public Finance and Fiscal Policy; 19.015 Urban Economics; 19.016 Mathematical Economics; 19.017 Econometrics; 19.018 Quantitative Methods in Economics (open only to M.A. candidates); and 19.019 Industrial Organization; 19.020 Development Banking; and 19.021 Energy, Resources, and Environment. See adviser for specific course requirements for each comprehensive examination field.

- Dissertation and oral comprehensive.

  The student obtains approval for the dissertation topic from an interested faculty member in the field who then becomes chair of the dissertation committee. This committee, especially the chair, supervises the preparation of the dissertation and reviews it when it is completed. An oral comprehensive examination on the dissertation proposal is given by the committee before its submission for approval. The dissertation seminar (19.799) is offered to assist students in the preparation of their proposals. After the completed dissertation is submitted to the committee, a final oral examination is held.

Special Opportunities

The Simon Naidel Dissertation Fellowship is awarded annually for the most promising dissertation proposal. The Simon Naidel Prize of one hundred dollars is awarded annually to the student who has written the most outstanding comprehensive examination, as judged by the faculty of the department.

Graduate Certificate in Applied Economics

Admission to the Program

Open to students with a bachelor's degree.

Course Requirements

Prerequisites

19.101 Introduction to Economics (Macro) /S (3)
19.102 Introduction to Economics (Micro) /S (3)
19.300 Price Theory (3)
19.301 Income Theory (3)
42.202 Basic Statistics /N (4) (may be waived on the basis of previous education or experience)

Requirements

- 19.500 Price Theory (3)
- 19.501 Income Theory (3)
- 19.522 Econometrics (3)

- Three semester hours from the following:
  19.532 Monetary Theory and Policy (3)
  19.541 Public Economics I (3)
  19.544 Urban Political Economy Survey (3)
  19.551 Theory of International Trade and Multinational Corporations
  19.560 Economic Development (3)
  19.571 Labor Economics: Theory (3)

- Three semester hours from the following:
  19.510 Cost-Benefit Analysis (3)

19.521 Mathematical Economic Analysis (3)
14.603 Accounting Concepts and Applications (3)

- 13.604 Business, Government, and Society (3)
- 13.605 Financial Management (3)

Other approved electives may be substituted.

School of Education

Dean L. Lee Knefelkamp

Full-Time Faculty

Professor S. Burr (Emeritus), C.A. Gross (Emeritus), B.A. Hodinko, F. Holliday (Emeritus), F. Jacobs, P.D. Leedy (Emeritus), N.J. Long, D. Sadker, M. Sadker, S.L. Smith,

Associate Professor L. Clark, A.S. Ferren, F.E. Huber (Emeritus), L. Lee Knefelkamp, L. Long, C.E. Messersmith, D.D. Miller (Emeritus), R. Ralph, V. Washington

Assistant Professor E. Smith

Research Faculty

Research Associate Professor S. Denbo

The School of Education at The American University conducts rigorous and innovative teacher training programs as well as a variety of research activities which focus on both national and international educational issues. Both graduate and undergraduate students have opportunities to acquire directed career training in research and teaching through internships in educationally oriented national associations, to receive early and continuous contact with children in a wide variety of public-and private-school settings, or to work in renowned university-related schools for students who are learning disabled or emotionally disturbed. The limited enrollment and selective admissions criteria allow the school to emphasize early and sustained child contact with study and supervision under master teachers in curriculums especially tailored to the student's individual career goals.

Undergraduates in the School of Education may major in Early Childhood and Elementary Education, or take a sequence of courses leading to certification in secondary education. On graduation, they are certified to teach in most states because of the school's widely recognized accreditation rating. A minor in Special Education is offered. Combined B.A./M.Ed. programs in elementary or secondary education and special education (learning disabilities or emotional disturbance) are available.

Undergraduates who wish valuable experience in nonteaching educational settings may explore professional careers in education associations, local and federal government agencies, publishing, education for the handicapped, and related fields. This may be done through the Washington Internship in Education. Both the teacher preparation programs and the Washington Internship in Education program benefit from the rich resources of the Washington area, where the headquarters of many national education organizations, the education agencies of the federal government, and several urban and suburban school systems are located.

The Faculty of Community Studies of the School of Education offers a Certificate in Community Development. See the listing under Community Studies in this publication.

Students who wish to pursue graduate studies may select from several programs. The special education program for the emotionally disturbed has won the American Association of Colleges for Teacher Education (AACTE) award as one of the outstanding programs in the United States. The graduate program in learning disabilities emphasizes a close and continuing relationship with local schools, practicum experience under master teachers, innovative teaching methodology, and practical working experience with learning-disabled adults. Graduate programs are also offered in educational administration, student development in higher education, teaching, international education and Jewish education. The school awards both masters and doctoral degrees.

B.A. in Early Childhood and Elementary Education

Admission to the Program

Admission to the university does not automatically admit one to a program in teacher education.

Continuous Selection Criteria

1) Students desiring admission must enroll concurrently in the beginning of a sequence of professional education courses: 21.300 Foundations of Education /S (3) and 21.320 Psychology of Education /S (3). Enrollment in these precedes formal application for a teacher education program. Early Childhood and Elementary Education majors normally enroll in these courses during the sophomore year, while those planning to teach in secondary schools must enroll not later than the fall semester of the junior year.

2) Students submit their applications to the School of Education for admission to a teacher education program. Application forms are available at the School of Education. Admission requirements at this stage are (a) a cumulative grade-point average of 2.70 or better, (b) letters of recommendation by faculty, and (c) recommendation by the student's academic adviser. Students must be admitted to the teacher education program prior to enrollment in the elementary methods courses.

3) To remain in a teacher education program, a student must maintain a cumulative grade-point average of 2.70 or better and receive satisfactory evaluations on methods and student teaching field placements. In order to be permitted to enroll in 21.446 Student Teaching, students must receive a positive evaluation from faculty supervisors. Evaluation of field performance may involve videotaping of classroom lessons.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four hours of distributive credit.
- English and mathematics competency.

(See "Undergraduate Study" for details.)

Major Requirements

- A total of sixty semester hours of major course requirements with grades of C or better and thirty-six semester hours of general course requirements.
- A 2.70 cumulative grade-point average and satisfactory performance evaluations. (See Admission to the Program above.)

Course Requirements

Note: These requirements are currently under review. Students should meet with their school of education advisers for specific information concerning fulfillment of these requirements.

Major Course Requirements

- 21.300 Foundations of Education /S (3)
- 21.320 Psychology of Education /S (3)
- 21.350 The Teaching of Mathematics in Early Childhood and Elementary Education (2)
- 21.351 The Teaching of Language Arts in Early Childhood and Elementary Education (2)
- 21.352 The Teaching of Social Studies in Early Childhood and Elementary Education (2)
- 21.353 The Teaching of Reading in Early Childhood and Elementary Education (3)
- 21.371 Theories of Reading: Diagnosis and Remediation (3)
- 21.446 Student Teaching (8–15)
- 21.580 The Teaching of Science in Early Childhood and Elementay Education (3)

- Seven of the following courses:
  - 21.212 Methodology of Sign Language /A (3)
  - 21.250 Mathematics for Elementary School Teachers (3)
  - 21.330 Speech and Generic Teaching Methods (3)
  - 21.315 Educational Issues and Approaches in Gifted Education (3)
  - 21.319 Children's Literature: Multicultural and International Approaches /A (3)
  - 21.325 Global and Multicultural Education /S (3)
  - 21.372 Methods and Practicum in Early Childhood Development (2)
  - 21.389 Sexism in School and Society: National and International Perspectives /S (3)
  - 21.390 Independent Reading Course in Education (1–6)
  - 21.402 Methods of Teaching Children with Learning Disabilities (3)
  - 21.490 Independent Study Project in Education (1–6)
  - 21.491 Internship in Education (6–9)
  - 21.502 Methods of Managing Pupils with Behavior Disorders (3)
  - 21.519 Computers in Education (3)
  - 21.531 Introduction to Administration in Education, Training, and Development (3)
  - 21.541 Foundations of Special Education for Exceptional Children (3)

  or
  - 21.545 Overview of All Exceptionalities: The Arts in Special Education /A (3)
  - 21.582 Biological Science for Elementary School Teachers (3)
  - 21.583 Curriculum Construction and Program Design (3)
  - 21.587 Analysis of Instruction and Training (3)
  - 49.330 Health and Wellness /S (3)

  other courses approved by an elementary education adviser, the director of the undergraduate program, or the dean of the School of Education.

General Course Requirements

Note: These requirements are currently under review. Students should meet with their school of education advisers for specific information concerning fulfillment of these requirements.

- Six semester hours in science.
- Three semester hours in mathematics.
- Nine semester hours in the humanities of which three must be in history and six may be chosen from literature, art, music, philosophy, religion, and the performing arts.
- Nine semester hours in the social sciences of which three must be in psychology and six may be chosen from anthropology, economics, government, international studies, psychology and sociology.
- An academic concentration of three additional courses in the arts and humanities, the natural sciences and mathematics, or the social sciences.

Note: Completion of this or a similar program is required to meet most state certification requirements in early childhood and elementary education. The professional aspects of the program have been carefully designed, but graduation does not assure one a position as a teacher. The American University does not license one to teach in any state; such certifications are issued only by a state government agency. Students are responsible for selecting courses to obtain certification in their chosen states. Certification requirements should be examined no later than the beginning of the student's sophomore year.

The program is approved by the National Council for Accreditation of Teacher Education (NCATE) and the National Association of State Directors of Teacher Education and Certification (NASDTEC). Consult "A Student's Guide to Undergraduate Programs in the School of Education" for a list of states recognizing NCATE-and NASDTEC-approved programs.

Consult adviser regarding certification matters. Consult the Preprofessional Advising Office for advising for School of Education concerns.

Note also: Students are responsible for providing transportation, either public or private, to their student-aide, methods, and student teaching assignments. Attempts will be made to honor individual requests for specific school assignments, but such placements cannot be guaranteed.

Secondary Education Certification

Students major in the field they plan to teach and take a formal sequence of School of Education courses required for certification. All students must meet all school of Education application requirements and deadlines.

Admission to the Program

See the admission requirements for the major in Early Childhood and Elementary Education. Further, students must have a 3.00 average in their major field.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- Students must complete courses for a major in the field in which they plan to teach.

Course Requirements

- 21.300 Foundations of Education /S (3) (concurrently with 21.320)
- 21.320 Psychology of Education /S (3) (concurrently with 21.300)
- 21.340 Methods and Materials in Secondary Education: General and Special: English, Social Studies, Mathematics, Foreign Languages, Biology, Music, Theatre, and Dance. (3) (or other approved methods courses offered by the liberal arts departments)
- 21.446 Student Teaching (9–15) (appropriate section)
- For students planning to teach English or social studies (highly recommended for others):
  21.371 Theories of Reading: Diagnosis and Remediation (3)
- For secondary certification:
  57.100 Introductory Survey of Psychology /N, S (3)
  or
  57.110 Behavior Principles (3)
  or
  another course in psychology approved by an adviser.

Accreditation

The following secondary teacher education programs are approved for accreditation by both NASDTEC and NCATE: English, Foreign Languages, Mathematics, Music (also K–12), Biology, Theatre, and Dance.

Note: Students are responsible for providing their own transportation to student-aide, methods, and student teaching assignments. Attempts will be made to honor individual requests for specific school assignments, but such placements cannot be guaranteed.

Minor in Special Education

Admission to the Program

Students wishing to undertake a minor in Special Education must have a 2.50 grade-point average and must have completed 21.300 Foundations of Education /S (3) and 21.320 Psychology of Education /S (3) with grades of C or better.

Requirements

- Eighteen semester hours from the following:
  21.315 Educational Issues and Approaches in Gifted Education (3)
  21.402 Methods of Teaching Children with Learning Disabilities (3)
  21.502 Methods of Managing Pupils with Behavior Disorders (3)
  21.504 Methods of Psychoeducational Assessment (2–3)
  21.541 Foundations of Special Education for Exceptional Children (3)
  21.545 Overview of All Exceptionalities: The Arts in Special Education /A (3)

Combined Bachelor's/Master of Education Programs in Special Education

Students receive a degree of Bachelor of Arts with a major in Early Childhood and Elementary Education or a Bachelor of Science or Bachelor of Arts with a program of study in secondary education, and a degree of Master of Education in Special Education: Learning Disabilities or Special Education: Emotional Disturbance.

Admission to the Program

Students should apply to the M.Ed. program in the second semester of the junior year. Applicants must have a 3.00 grade-point average in major and minor courses; must have completed satisfactorily 21.402 Methods of Teaching Children with Learning Disabilities (3), 21.502 Methods of Managing Pupils with Behavior Disorders (3), and 21.541 Foundations of Special Education for Exceptional Children (3); and must be recommended by the director of the program in Special Education: Emotional Disturbance or Special Education: Learning Disabilities.

Requirements

- All requirements for the B.A. in Early Childhood and Elementary Education or B.A. or B.S. with Secondary Education Certification Courses.
- All requirements for the undergraduate minor in Special Education.

- All courses required for the M.Ed. in Special Education: Learning Disabilities or Special Education: Emotional Disturbance.

- 21.502 Methods of Managing Pupils with Behavior Disorders (3) and
- 21.541 Foundations of Special Education for Exceptional Children (3) are taken at the undergraduate level but apply to the requirements for both the B.A. and the M.Ed.

M.Ed. Programs

Admission to the Program

Applicants should have an undergraduate degree with an overall grade-point average of 3.00 on a 4.00 scale, based on the last sixty semester hours of work, a 3.00 or better in education or other major field of specialization, and a satisfactory score on the Graduate Record General Examination or the Miller Analogies Test. Additional admission requirements may be imposed by the School of Education. Applicants are encouraged to consult with the school before applying.

Majors

Students receive a degree of Master of Education with a major in Student Development in Higher Education; Educational Administration; Special Education: Emotional Disturbance; or Special Education: Learning Disabilities.

Degree and Major Requirements

- A total of thirty-three semester hours of approved graduate work.
- Comprehensive examination. Consult program adviser for details.
- Research, practicum, or internship.

Course Requirements

Educational Administration

- Fifteen semester hours in the major field including:
- 21.631 Introduction to Administration in Education, Training, and Development (3)
- 21.639 Administrative Effectiveness Workshop (3)
- Twelve semester hours of electives.
- Six semester hours to satisfy the nonthesis option.

Student Development in Higher Education

- Fifteen semester hours in the major field.
- Six semester hours in the psychology, foundations, history, or sociology of education; curriculum construction; or analysis of teaching.
- Three semester hours in statistics, tests, and measurements (or approved equivalent).
- Six additional semester hours.
- 21.790 Educational Research (3) and three additional semester hours of research, practicum or internship.

Special Education: Learning Disabilities

- 21.502 Methods of Managing Pupils with Behavior Disorders (3)
- 21.503 Theories and Practices in Special Education (3)
- 21.606 Theories and Methods of Diagnostic and Remedial Mathematics (3)
- 21.607 Research Methods in Special Education (3)
- 21.645 Learning Disabilities I (3)
- 21.646 Learning Disabilities II (3)
- 21.671 Foundations of Reading Diagnosis and Remediation (3)

- 21.545 Overview of All Exceptionalities: The Arts in Special Education /A (3)

  or

  21.541 Foundations of Special Education for Exceptional Children (3)

- 21.605 Methods of Psychoeducational Assessment for Learning Disabilities (3)
- 21.644 Language Development and Remediation (3)
- 21.792 In-Service Training Project: Internship with Learning Disabled Children (3–6)

- One elective.

Special Education: Emotional Disturbance

- 21.502 Methods of Managing Pupils with Behavior Disorders (3)
- 21.503 Theories and Practices in Special Education (3)
- 21.606 Theories and Methods of Diagnostic and Remedial Mathematics (3)
- 21.501 Language Arts and Social Studies Curricula in Special
- 21.607 Research Methods in Special Education (3)
- 21.645 Learning Disabilities I (3)
- 21.671 Foundations of Reading Diagnosis and Remediation (3)
- 21.504 Methods of Psychoeducational Assessment (3)
- 21.508 Theories and Methods of Urban Education Curriculum (3)
- 21.620 Advanced Educational Psychology (3)
- 21.792 In-Service Training Project: Internship with Emotionally Disturbed Children (3–6)

Special Opportunities

Master of Education Program for Training Teachers of Emotionally Disturbed Children: It is desirable that applicants have an education background, but this is not required. A unique characteristic of this twelve-month program is that the trainee spends a summer session at The American University campus taking courses from the School of Education, and the following nine months at a Washington-area public school, in an intensive internship-seminar program of fifty hours a week. On completing this program, students are awarded an M.Ed. degree with a major in Special Education, and meet certification requirements to teach emotionally disturbed children. Fellowships are available. For further infor-

mation, write: Project Director, M.Ed. Program for Training Teachers of Emotionally Disturbed Children, School of Education, Roper Hall, The American University, Washington, D.C. 20016.

M.A. in Education

Admission to the Program

Same as for the Master of Education.

Tracks

Teaching Certification: for students who want to get teaching certification

General Education (used for special programs only).

International Education: with emphasis in development education or global and intercultural education.

Jewish Education: for students wishing course work in both education and Jewish Studies. Under a special contractual arrangement, the College of Jewish Studies nominates applicants for admission to this program option.

Degree and Major Requirements

- A total of thirty semester hours of approved graduate work for teaching certification, general education, and international education. thirty-three semester hours for Jewish education.
- Research, practicum, or internship.
- Comprehensive examination.

Course Requirements

Teaching Certification

- Three semester hours in advanced foundations of education.
- Three semester hours in advanced psychology of education.
- Three semester hours of teaching methods.
- Nine semester hours of student teaching.
- Twelve semester hours of electives.

General Education

This track is designed to be used for specific and unique student groups who have been admitted to a specially designed master's degree sequence.

International Education

(There are two tracks within International Education.)

Development Education:

- 21.583 Curriculum Construction and Program Design (3)
- 33.637 International Development (3)
- 21.678 Comparative and International Education /S (3)
- 21.679 Nonformal Education and Development (3)

Global and Intercultural Education:

- 21.583 Curriculum Construction and Program Design (3)
- 21.625 Global and Multicultural Education (3)
- 33.642 Cross-Cultural Communication (3)
- 21.678 Comparative and International Education /S (3)

Research Requirement For Both Tracks

- Six semester hours in:
  21.792 In-Service Training Project: Internship in Education (6)
  or
  21.525 Introduction to Statistics, Tests, and Measurement (3) and
  21.693 Program and Training Evaluation (3)
  or
  21.790 Educational Research (3)
  or

  two courses at the 600 level or above with the adviser's permission.
- Twelve semester hours from a list of recommended courses or those approved by adviser.

Jewish Education

- 34.500 Foundations of Jewish Culture and Tradition (3)
- 34.502 The Modern Jewish Experience in Literature (3)
- 34.504 Jewish Ethics and Values (3)
- 34.506 Jewish Social, Political, and Cultural Institutions (3)
- 34.508 Analysis of Jewish Liturgical Texts (3)

Two of the following:

- 21.525 Introduction to Statistics, Tests, and Measurement (3)
- 21.583 Curriculum Construction and Program Design (3)
- 21.587 Analysis of Instruction and Training (3)
- 21.790 Educational Research (3)

- Twelve semester hours of electives in the School of Education, drawn from a list of recommended courses or approved by adviser.

Note: All course work must be approved by an adviser and must include six semester hours of research, practicum, or internship.

Master of Science in Science Teaching (M.S.S.T.)

For information about the interdepartmental Master of Science in Science Teaching degree program, see Interdepartmental Science in this publication.

Doctoral Programs in Education

The School of Education accepts candidates for the degrees of Doctor of Education and Doctor of Philosophy with a major in Education and an emphasis in the following areas

of study: Counseling and Development, Educational Administration, and Mathematics Education (Ph.D. only). Applicants should consult with the school for information regarding other areas of emphasis.

Admission to the Program

A bachelor's degree and, in most cases, a master's degree are required for entrance to a doctoral program. In order to gain admission, students should have achieved a satisfactory score on the Graduate Record General Examination or the Miller Analogies Test and an acceptable grade-point average on previous graduate and undergraduate work. Specific standards may be obtained from the School of Education.

Degree and Major Requirements

- At least seventy-two semester hours of approved graduate work.
- Ph.D. candidates: Two tools of research: one in statistics or educational statistics (see note below) and a second in computer language, sign language, a foreign language, or another field approved by the school.
- Ed.D. candidates: One tool of research in statistics, educational statistics (see note below), computer language, sign language, a foreign language, or another field approved by the school.

  Note: The tool in educational statistics consists of 21.525 (or approved equivalent taken at another university) and 42.514 with a grade of B (3.0) or better.
- Four comprehensive examinations: two written, one oral, one written or oral.

  Counseling and Development: 21.011 Counseling, 21.017 Student Development, an oral examination in counseling and student development, and one additional examination either in or outside the School of Education.

  Educational Administration: Candidates for either the Ph.D. or Ed.D. degree must take comprehensive examinations in educational administration. Candidates for the Ph.D. must take an examination in one support field in the School of Education; the second support-field examination may be taken either inside or outside the school. Candidates for the Ed.D. must take examinations in two support fields, both of which may be in the School of Education.

  Mathematics Education: Refer to the Department of Mathematics, Statistics, and Computer Science section of this publication for information on this major.

  Candidates should consult their advisers concerning the comprehensive examinations. The candidate must make the necessary arrangements with the appropriate department for examinations taken outside the School of Education. Comprehensive areas outside the school include, but are not limited to: clinical psychology, history, management, sociology, government, and statistics.
- Dissertation and oral defense. The oral defense must be directed by a member of the full-time faculty. Exceptions to this full-time faculty requirement may be approved by the dean of the School of Education with concurrence of the dean, College of Arts and Sciences.

Course Requirements

- 21.790 Educational Research (3)
- One graduate-level course in statistical methods.

  (Students whose dissertations involve quantitative research must take additional course work in statistics.)
- Twelve hours of dissertation research.

Specific courses are required for all doctoral study areas. Students must have an approved program of study that reflects these requirements.

English Language Institute

Director Gilbert Couts

Assistant Director M.E. Barrett

The English Language Institute is an institute of the Department of Language and Foreign Studies. It offers daytime and evening programs in English as a second language. These programs, which are offered during the fall, spring, and summer terms, include intensive and semi-intensive classes at all levels of proficiency. The classes are designed to meet the specific English language needs of foreign students and members of Washington's international community.

Classes during the fall and spring semesters last fourteen weeks. The summer session lasts twelve weeks. Students may enroll only at the beginning of a session.

For students admitted to degree programs at the university, the institute offers courses in composition and reading at the undergraduate and graduate levels.

English as a Second Language

The objective of the program is to provide nonnative speakers of English with the opportunity to improve their skill in English to the extent that language is no longer a barrier to academic study.

Admission to the Program

Students may apply directly to the institute by filing an application in the English Language Institute office, room 200, McKinley Building. The Office of International Admissions refers newly admitted international students to the institute for testing and placement at the beginning of each semester or session. Once tested, students are placed in classes appropriate to the level of their proficiency in English.

Course Requirements

Evaluations determine the required course sequence and the number of courses which may be taken outside the in-

stitute. Students placed in four English classes (intensive English) may not take any other courses concurrently. Exceptions require permission from both the English Language Institute and the student's academic adviser.

History

Chair Robert L. Beisner

Full-Time Faculty

Professor C. Anthon (Emeritus), R.L. Beisner, D. Brandenburg (Emeritus), R.D. Breitman, R.H. Brown, H. Davis (University Professor Emeritus), D. Gondos (Emerita), J. Joughin (Emerita), A.M. Kraut, A.J. Lichtman, C.C. McLaughlin, J. Oppenheim

Associate Professor V. French, I. Klein, J.A. Malloy

Assistant Professor R.L. Frost, M. Kazin, P. Kuznick, T. Murphy, P.S. Nadell

Instructor J.W. Mooney (Visiting)

Research Faculty

Research Professor C. Beveridge

History is the record of the past and the academic discipline of those making a serious study of the past. Studying history means examining the full range of human endeavor: the arts and sciences; politics and the spread of political ideas across boundaries of space and time; economic and technological change; and the relationships of individuals and groups to their communities and cultures. Anyone concerned with the contemporary world cannot comprehend its problems without some awareness of how it differs from past eras.

As part of the humanities, history includes all forms of creative thought and expression. At the same time, it requires as much rigor in the use and analysis of evidence as any social science.

Both the undergraduate and graduate programs in history emphasize interdisciplinary study and close contact between students and faculty. Students have easy access to such great research collections as the Library of Congress, National Archives, and the National Library of Medicine. Internships are available in historical agencies, congressional offices, and such varied organizations as the Textile Museum and U.S. Supreme Court. Besides preparing students for careers in teaching and scholarship, or for admission to law schools, history's rigorous training in research, writing, and intellectual problem-solving equips graduates for excellent placement in business, government, public-interest associations, journalism, and many other professions.

B.A. in History

Admission to the Program

Students must be approved by the department for formal admission to the major.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of thirty-nine semester hours with grades of C or better.

Course Requirements

- 29.480 Major Seminar I (3)
- 29.481 Major Seminar II (3)
- One course in ancient or medieval history.
- One course in Russian, Asian, African, or Latin American history.
- One course in United States history at the 300 level or above.
- One course in Western European or British history at the 300 level or above.
- Additional courses to make a total of thirty-nine semester hours in history, at least twenty of which must be taken at The American University.

Special Opportunities

Honors in History; Dorothy Ditter Gondos Award; internships.

Honors: All majors are automatically eligible for Academic Honors in History, which are awarded when a student achieves a 3.5 or better in the following weighted grade-point average: two times the grade-point average in history courses plus the grades in Major Seminar (29.480 and 29.481), divided by three. (Thus, the grade-point average in other history courses carries twice the weight of the Major Seminar grades.) Students may discuss honors with either the chair of the department or of the Undergraduate Studies Committee.

Minor in History

Requirements

- One course in Western European or British history at the 300 level or above.
- One course in U.S. history at the 300 level or above.
- One course in the history of an area other than those mentioned above.
- Four more courses in history, including at least two at the 300 level or above.
- At least twelve of the twenty-one semester hours in history must be taken at The American University.

B.A./M.A. in History

Admission to the Program

The program enables students to complete the B.A. and M.A. in history in five years. Students will be admitted formally to M.A. status only if they have completed all requirements for the B.A. in history with strong grades (3.0 cumulative grade-point average and a 3.2 in history courses). Students should apply for admission to the program in their junior year. Those students moving to M.A. standing will be exempt from the usual Graduate Record Examination requirement.

Requirements

- All requirements for the B.A. degree with a major in history.
- All requirements for the M.A. degree with a major in history.

Students may apply six semester hours of course work in history to satisfy the requirements of both degrees.

M.A. in History

Admission to the Program

Requirements: results of the Graduate Record Examination (Verbal and Quantitative General); letters of recommendation from two professors with whom work was taken recently; substantial beginning in a tool of research; and favorable judgment of the department graduate committee and chair.

Degree and Major Requirements

- A total of thirty semester hours of approved graduate work.
- One of the following as tool of research: foreign language, quantitative methods, statistics, computer science, or a methodology approved by the graduate committee of the Department of History.
- One comprehensive examination.
- Thesis option: a satisfactory thesis, completed through six hours of 29.797 Master's Thesis Seminar and one research seminar (with a grade of B or better).

  Nonthesis option: two substantial research papers done in research seminars (with grades of B or better).

Course Requirements

- Two colloquia from the following with grades of B or better:
  29.72015 Colloquium in Modern European History 1815–1945 (3)
  29.727 Colloquium in United States History I: to 1865 (3)
  29.728 Colloquium in United States History II: since 1865 (3)

  or approved substitute.
- Thesis option:
  29.797 Master's Thesis Seminar (6)

  Three semester hours from the following:
  29.751 Research Seminar in European History (3)
  29.752 Research Seminar in United States History (3)

  or approved substitute.

  Nonthesis option:

  Six semester hours from the following:
  29.751 Research Seminar in European History (3)
  29.752 Research Seminar in United States History (3)

  or approved substitute.
- Courses selected to fulfill either (1) a single-field program in United States or modern European history, or (2) a two-field program with a major field (eighteen semester hours) and a minor field (twelve semester hours).

Special Opportunities

Internships at the National Archives, U.S. Government agencies, and local historical societies.

Ph.D. in History

Admission to the Program

Requirements: completion of the M.A. degree in history or in a related field; substantial beginning in one tool of research; results of the Graduate Record Examination (Verbal and Quantitative General); letters of recommendation from two professors with whom work was taken recently; sample of recent written work of substantial length (M.A. thesis, research paper, or interpretative essay) sent directly to the Department of History; and favorable judgment of the department's graduate committee and department chair.

Degree and Major Requirements

- A total of forty-two semester hours of approved graduate work beyond the M.A.
- Two of the following as tools of research: foreign languages, quantitative methods, statistics, computer science, or a methodology approved by the graduate committee of the Department of History.
- Four comprehensive examinations: three written and one oral. Comprehensive examinations are offered in the areas of ancient history, United States history, modern European history, British history, Latin American history, modern Asian history, Russian history, and diplomatic history. One comprehensive examination must be in one of the following: a historical field outside the student's main area of concentration, a comparative or cross-disciplinary field, or a field in another discipline.
- Dissertation and oral defense. (Dissertation work is not usually available in ancient, Russian, or Latin American history.)
- Advancement to candidacy after completion of comprehensive examinations and at the time the dissertation proposal is approved.

Course Requirements

- One of the following with a grade of B or better:
  29.720 Colloquium in Modern European History, 1815–1945 (3)
  29.727 Colloquium in United States History I: to 1865 (3)
  29.728 Colloquium in United States History II: since 1865 (3)

  or approved substitute.
- Two research seminars for six semester hours from the following with grades of B or better:
  29.751 Research Seminar in European History (3)
  29.752 Research Seminar in United States History (3)

  or approved substitute.
- At least twelve hours of dissertation seminar.

Interdepartmental Science

Coordinator Chair of Department of Major Science or Mathematics

Coordinator, Master of Science in Science Teaching Robert J. Chinnis, Department of Biology

Faculty Faculties of the departments of Biology; Chemistry; Mathematics, Statistics, and Computer Science; Physics; and Psychology; and of the School of Education.

B.S. in Distributed Science

Admission to the Program

No unique admission requirements.

Tracks

Biology, Chemistry, Mathematics, Physics, and Psychology.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of seventy-four semester hours with grades of C or better.

Course Requirements

- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- Two courses selected from: anthropology, economics, philosophy, 40.280 Introduction to Computer Science I /N (4), 40.281 Introduction to Computer Science II /N (4), and 57.100 Introductory Survey of Psychology /N, S (3).
- Twenty-six semester hours in one area of science or mathematics.
- Twelve semester hours in a second area of science or mathematics.
- Eight semester hours in a third area of science or mathematics.
- Eight semester hours in a fourth area of science or mathematics.
- Six additional semester hours in either the first or second area of science or mathematics.

Courses should be taken in the sequence specified by each department.

The following may not be used as credit toward meeting the requirements for this major: 15.101, 15.102, 41.211, 41.212, 50.101, 51.204, and 51.210.

See Also: Undergraduate program in environmental studies under Biology in this publication.

Master of Science in Science Teaching (M.S.S.T.)

Admission to the Program

The degree of M.S.S.T. is administered jointly by the departments of the sciences, the Department of Mathematics, Statistics, and Computer Science, and the School of Education. Students interested in this program should consult the program coordinator and the chair of the science or mathematics department in which they plan to concentrate. The chair of that department will assign an adviser. Students must have completed either the Graduate Record Examination or the Miller Analogies Test. Two letters of recommendation are required.

Degree and Major Requirements

- A total of thirty semester hours of approved graduate course work.
- Advancement to candidacy on completing twelve graduate semester hours.
- Two comprehensive examinations: one in education and one in the area of science concentration.

  All comprehensive examinations must have the approval of the coordinator of the Master of Science in Science Teaching.
- A nonthesis option as approved by the faculty adviser.

Course Requirements

Prerequisite: One year of college mathematics (algebra and analytic geometry or equivalent) taken either before entering the M.S.S.T. program or as an additional course for no graduate credit along with the courses taken for graduate credit.

- Six semester hours in the field of concentration.

  The student's undergraduate and graduate courses in the area of concentration must total at least thirty-two semester hours.

- At least eight semester hours in a second science field.

- Six semester hours of graduate courses in education in consultation with the coordinator of the Master of Science in Science Teaching. These courses must be related to one of the comprehensive examinations in education.

  A maximum of twelve semester hours of courses from the 300 and 400 level may be applied toward the requirements for this degree.

Note Also: See the master's degree programs in the departments of Biology; Chemistry; Mathematics, Statistics, and Computer Science; Physics; and Psychology; and in the School of Education.

Jewish Studies Program

Director Benjamin Kahn

Full-Time Faculty

Assistant Professor P.S. Nadell

Faculty of other schools and departments of the university and from the community also teach in the program.

The program in Jewish Studies recognizes that Jews and Judaism constitute a distinct yet integral component of the heritage of Western civilization. Jewish Studies courses, therefore, analyze the civilization of the Jews and its various cultural and religious expressions from the patriarchal period to the present.

Since Jewish Studies embrace the total experience of the Jewish people, these courses span the spectrum of the arts, humanities, and the social sciences. Moreover, since dynamic contact with many other religions and cultures influenced the development of Jewish civilization, Jewish Studies courses view Jews and Judaism within the broader context of these dominant societies. Courses in Jewish Studies enrich one's understanding of American and world Jewries. The majors and minors in Jewish Studies prepare students for leadership within and service to the Jewish community, and for a greater understanding of our pluralistic society.

Morris Gewirz Series in Jewish Thought

Established in 1975 through an endowment grant from the family of the late Morris Gewirz, noted Washington Jewish philanthropist, in memory of his commitment to Jewish education. The series includes a two-semester survey of the development of Jewish civilization and specialized studies such as modern Jewish philosophy.

Dr. Everett and Marian Gordon Studies in Judaism's Interfaith Dimensions

Established in 1976 through an endowment grant from Dr. Everett Gordon and his wife Marian. Provision is made for courses and lectures which uncover the common roots of Western religion and compare Judaism with Christianity and Islam.

Dr. Everett and Marian Gordon Scholarship Awards in Jewish Studies

Also established in 1976 through an endowment grant from noted Washington orthopaedic surgeon Dr. Everett Gordon and his wife Marian. Funding is provided for awards for and printing of outstanding senior theses in Jewish studies and for work and other scholarships for classroom performance by students in courses in Jewish studies, with preference given to students without previous background in Jewish studies.

Jerrold and Jane Goodman Scholarships

Established in 1979 through an annual grant from Yablick Charities, Inc. Scholarships are awarded annually to outstanding students in Jewish Studies.

Jewish Chautauqua Society Lectureships

The Resident Lectureship Committee of the Jewish Chautauqua Society (under the auspices of the National Federation of Temple Brotherhoods) endows two courses each year in the Jewish Studies program.

Special Opportunities

(1) Since Washington, D.C., is a center of Jewish organizational life,we offer internships for credit with local Jewish organizations devoted to community relations, religious activities, Israel, social welfare, etc. (2) Graduation with departmental honors on completion of all requirements for the major with a 3.50 grade-point average in Jewish Studies courses. (3) Double major: Jewish Studies correlated with a major in another department or school of the university. (4) Jewish Studies minor for majors in the School of Education leading to a certificate for teaching in Jewish schools. (5) Preparation for careers in Jewish communal service.

B.A. in Jewish Studies

Admission to the Program

Admission to the program requires a 2.00 grade-point average and the approval of the director of the program.

University Requirements

- A total of 120 semester hours.

- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

(See "Undergraduate Study" for details.)

Major Requirements

- A minimum of thirty-nine semester hours in Jewish Studies.

Course Requirements

- 34.205 Ancient and Medieval Jewish Civilization /S (3)
- 34.206 Modern Jewish Civilization /S (3)
- 34.481 Senior Thesis in Jewish Studies (3)
- 36.216 Hebrew, Intermediate Modern I /A (3)
- 36.217 Hebrew, Intermediate Modern II /A (3) or equivalent proficiency in Hebrew as approved by the Jewish Studies Program faculty.

Note that 36.116 Hebrew, Elementary Modern I /A (3) and 36.117 Hebrew, Elementary Modern II /A (3) (or equivalent) are prerequisites for the language requirement but do not count toward the major.

- One course in Jewish literature.
- One course in Jewish thought.
- One course in contemporary Jewish life.
- Fifteen additional semester hours in Jewish Studies.

Eighteen of the total thirty-nine hours must be at the 300 level or above. Some courses, with the approval of the program director, may be related courses in other units of the university.

Minor in Jewish Studies

Course Requirements

- 34.205 Ancient and Medieval Jewish Civilization /S (3)
- 34.206 Modern Jewish Civilization /S (3)
- One course in Jewish literature.
- One course in Jewish thought.
- One course in contemporary Jewish life.
- At least one additional course, to make a minimum of eighteen semester hours in Jewish Studies, with a grade of C or better. Twelve of the eighteen hours must be at the 300 level or above.

Note Also: The Jewish education option of the M.A. in Education, listed under the School of Education.

Language and Foreign Studies

Chair Anthony S. Caprio

Full-Time Faculty

Professor E.I. Burkart, G.S. Burkart, A.S. Caprio, R.P. Fox, V. Medish, H. Mueller (Emeritus), H. Noel (Emeritus), B.F. Steinbruckner

Associate Professor M.J. Betts (Emerita), V.Z. Borkovec, M. Charbonneaux (Emerita), J. Child, J. Goldin, M.A.G. Hood, H. Pineda, O. Salazar, J. Wisman, Z. Wythe (Emerita)

Assistant Professor P.R. Côté, E. Oktay (Emerita)

Visiting Assistant Professor M. Grala, A. Wegner

In an increasingly complex world that grows smaller every day, the study of foreign languages, literature, and cultures is of vital importance. Learning the ways in which other nations live and think furthers understanding among peoples and cultures. The Department of Language and Foreign Studies offers extensive study in French, German, Russian, and Spanish foreign language and culture; as well as a joint area and language program with the School of International Service and a joint degree program with the School of Communication. In addition, language courses in Chinese, Hebrew, Italian, Hindi, and Polish are usually offered each academic year.

With its large diplomatic community, Washington is ideally situated to offer students the opportunity to exchange ideas and enhance their language skills with native speakers. The university can also draw from a large foreign student body in the exchange of cultures and languages. Extensive language practice is available through the Cooperative Education Program which provides international work-study for academic credit. For Spanish-degree candidates internships are available in the Hispanic community in the local area.

A knowledge of a foreign or second language clearly offers greater employment opportunities today. Many areas of business, industry, and government service consider a background in foreign language a career must. Recent graduates of the department have been employed in a variety of organizations and fields including the Department of State, Library of Congress, National Security Agency, Voice of America, and National Academy of Sciences, as well as international import and export firms, public and private high schools, and research-and-development firms.

The English Language Institute, listed separately in this catalog, is an institute of the Department of Language and Foreign Studies.

Instruction in the following languages may be offered if demand warrants: Arabic, Czech, Danish, Dutch, Greek (Modern), Hungarian, Indonesian, Japanese, Korean, Latin, Latvian, Norwegian, Portuguese, Serbo-Croatian, Swedish, Thai, Vietnamese, and Yiddish.

Description of the Language Program

First Year 100-Level Intensive and Nonintensive Elementary Courses Emphasis on mastering structure for oral and

written communication. Basics of phonology and morphology. Situational approach. Perfection of audiolingual skills. Development of good pronunciation and speech patterns. Five hours of class instruction per week (two and a half hours for nonintensive courses) supplemented by individual language laboratory work.

Second Year 200-Level Intensive and Nonintensive Intermediate Courses Emphasis on cultural patterns and contrasts between cultures. Refinement of basic language skills. Study of more complex grammatical structures. Introduction of syntax. Expansion of vocabulary in a cultural context. Intensive and extensive reading. Controlled writing projects. Transition from manipulation of patterns to development of communicative skills. Appropriate use of audiovisuals. Five hours of class instruction per week (two and a half hours for nonintensive courses) supplemented by individual language laboratory work.

Third Year 300-Level Intensive and Nonintensive Conversation and Composition Courses Emphasis on style and style level. Expansion of vocabulary through extensive reading of literary excerpts, current newspapers, and magazines, assisted by frequent use of audiovisual aids. Perfection of oral skills. Review of grammatical structures. Creative use of language. Study of semantic problems, idioms, clichés, and figurative speech. Five hours of class instruction per week (two and a half hours for nonintensive courses).

Additional 300-Level Courses Selected topics courses taught in the foreign language. Designed for both majors and nonmajors. May be repeated for credit provided different subjects are covered.

300-and 400-Level Civilization Courses Survey of a foreign civilization. Emphasis on the historical development of literature. Topical lectures. Designed for both majors and nonmajors.

B.A. in French, German, Russian, or Spanish Studies

Admission to the Program

Completion of designated language course work as outlined below for each language. Language course work may be waived if high school or other preparation warrants it. Placement will be made in consultation with a departmental adviser.

Majors

French, German, Russian, or Spanish Studies.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of forty-two semester hours with grades of C or better; thirty-three semester hours for Russian major.
- Prerequisite completion of elementary language level; intermediate level for Russian major.
- One of the following field concentrations:

  1)Twelve semester hours in a second foreign language at any level.

  2)Twelve semester hours in area studies in the major field at the 300 level or above.

  3)Teacher education leading to certification to teach a foreign language at the secondary level.

  4)An approved minor or major related to the major field; for example, a minor in another language, business administration, mass media studies, international business, economics, political science, history, sociology, literature, anthropology, or international studies.

Teacher Certification

Students preparing for French or Spanish teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education chapter in this publication for information.

Course Requirements

French

- Six to twelve hours of:
  36.222 French, Intermediate I /A (3) and
  36.223 French, Intermediate II /A (3)
  or
  36.224 French, Intensive Intermediate I /A (6) and
  36.225 French, Intensive Intermediate II /A (6)

- 37.327 Introduction to French Literature (3)
- 37.324 French Intensive Conversation and Composition I /A (6) (may be replaced by other 300-or 500-level courses if warranted by language proficiency)
- 37.325 French Intensive Conversation and Composition II /A (6) (may be replaced by other 300-or 500-level courses if warranted by language proficiency)
- 37.428 French Civilization I (3)
- 37.429 French Civilization II (3)

- Remaining semester hours from the following, with at least six semester hours at the 500 level:
  33.530 Colloquium on the Common Market (3)
  37.320 Introduction to French Culture (3)
  37.326 French Topics (3)
  37.491 Internship: French (3)

  French courses, including colloquium, at 500 level.

German

- 36.232 German, Intermediate I /A (3)

- 36.233 German, Intermediate II /A (3)
- 37.330 Introduction to German Culture (3)
- 37.332 German Conversation and Composition I /A (3) (may be replaced by other 300-or 500-level courses if warranted by language proficiency)
- 37.333 German Conversation and Composition II /A (3) (may be replaced by other 300-or 500-level courses if warranted by language proficiency)
- 37.337 Introduction to German Literature (3)
- 37.338 German Civilization I (3)
- 37.339 German Civilization II (3)

- Eighteen additional semester hours chosen from 500-level courses, independent study projects, and topics courses in German studies.

Russian

- 37.342 Russian Conversation and Composition I /A (3)
- 37.343 Russian Conversation and Composition II /A (3)
- 75.501 Intergrated Seminar on Russia (3)

- Twenty-one semester hours from the following:
  37.341 Russian Culture Workshop (3)
  37.442 Russian Literature Workshop (3)

  500-level Russian literature or Russian linguistics courses.

  37.390 Independent Reading Course in Language and Foreign Studies (1–6)
  or
  37.490 Independent Study Project in Language and Foreign Studies (1–6)

Spanish

- Six to twelve semester hours of intermediate Spanish.

- 37.350 Introduction to Hispanic Culture (3)
- 37.354 Spanish Intensive Conversation and Composition I /A (6) (may be replaced by other 300-or 500-level course if warranted by language proficiency)
- 37.355 Spanish Intensive Conversation and Composition II /A (6) (may be replaced by other 300-or 500-level course if warranted by language proficiency)
- 37.357 Introduction to Spanish Literature (3)
- 37.450 Spanish Civilization I: Spain (3)
- 37.451 Spanish Civilization II: Latin America (3)
- 37.491 Internship: Spanish (2–6)

- Remaining semester hours chosen from Spanish topics, colloquium, and literature courses.

Note Also: The Department of Language and Foreign Studies faculty offers teacher education courses through the School of Education.

B.A. in Language and Area Studies

Students receive a B.A. in a language and area study from the College of Arts and Sciences or the School of International Service.

Admission to the Program

Freshmen and transfer students are admitted to the Department of Language and Foreign Studies in the College of Arts and Sciences or to the School of International Service. They must achieve a 3.00 or better cumulative average and determine their language and area before they are formally recognized as majors.

Majors

French/West European Area Studies; German/West European Area Studies; Russian/USSR Area Studies; Spanish/Latin American Area Studies.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of forty-two semester hours with grades of C or better.

  Eighteen of the total semester hours in the language of the major at the 300 level or above taken in the Department of Language and Foreign Studies.

  Twenty-four of the total semester hours in the area of specialization fulfilled according to requirements for the College of Arts and Sciences degree or the the School of International Service degree.

Course Requirements

French

- 37.324 French Intensive Conversation and Composition I /A (6) (or substitute if warranted by language proficiency)
- 37.325 French Intensive Conversation and Composition II /A (6) (or substitute if warranted by language proficiency)
- 37.428 French Civilization I (3)
- 37.429 French Civilization II (3)

German

- 37.332 German Conversation and Composition I /A (3) (or substitute if warranted by language proficiency)
- 37.333 German Conversation and Composition II /A (3) (or substitute if warranted by language proficiency)
- 37.338 German Civilization I (3)
- 37.339 German Civilization II (3)

- Additional six semester hours in German as advised.

Spanish

- 37.354 Spanish Intensive Conversation and Composition I /A (6) (or substitute if warranted by language proficiency)
- 37.355 Spanish Intensive Conversation and Composition II /A (6) (or substitute if warranted by language proficiency)
- 37.450 Spanish Civilization I: Spain (3)
- 37.451 Spanish Civilization II: Latin America (3)

Russian

- Courses chosen from regular Russian offerings in consultation with adviser.

College of Arts and Sciences

- Twenty-four semester hours in area-related courses in anthropology, economics, government, history, international relations, language and foreign studies (beyond the eighteen-semester-hour requirement), literature, interdisciplinary studies, and the general education complement. Courses are chosen in consultation with the adviser.

School of International Service

- Twenty-four semester hours of course work specific to the major area of which at least six semester hours must be in SIS.

  Other course work may be taken in anthropology, economics, government, history, language and foreign studies (beyond the eighteen-semester-hour requirement), literature, interdisciplinary studies, and the general education complement.

  Note: SIS-degree candidates must include in their program a minimum of eighteen semester hours of SIS course work.

B.A. in Foreign Language and Communication Media

Admission to the Program

Students are admitted to both the School of Communication and the Department of Language and Foreign Studies.

Tracks

French, German, Russian, or Spanish combined with Broadcast Journalism, Print Journalism, Public Communication, or Visual Media.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency

  (See "Undergraduate Study" for details.)

Major Requirements

- Prerequisite competency in the major language at the intermediate level.
- A total of fifty-four semester hours with grades of C or better.

Course Requirements

- 17.100 Introduction to Mass Media /S (3)
- 17.200 Writing for Mass Communication (3)
- Three communication and media studies courses from the School of Communication.
- Two of the following (or approved substitute):
  37.320 Introduction to French Culture (3)
  37.330 Introduction to German Culture (3)
  37.350 Introduction to Hispanic Culture (3)
- One of the following:
  38.198 Language and Ethnicity (3)
  38.199 International Vocabulary (3)
  38.200 Language and Mind (3)
- Five courses in one of the four communication major tracks: Broadcast Journalism, Print Journalism, Public Communication, or Visual Media.
- Fifteen semester hours of courses in the major language at the 300 level or above taken in the Department of Language and Foreign Studies.

Minor in French, German, Russian, or Spanish Language

Requirements

- Twenty-four semester hours of courses taught in the foreign language, of which twelve semester hours must be at the 300 level or above.

Minor in Russian Studies

Requirements

- 75.501 Integrated Seminar on Russia (3)
- Fifteen semester hours in Russian studies selected from course offerings in at least three different teaching units. Nine of these fifteen semester hours must be at the 300 level or above.

Minor in Language and Area Studies (French and Spanish)

Requirements

- A total of twenty-four semester hours.
- Twelve semester hours in the Department of Language and Foreign Studies. Six of these twelve semester hours must be at the 300 level or above.

- Twelve semester hours selected from relevant course offerings in the Department of Language and Foreign Studies or in other teaching units. Studies may be in such fields as international service, government and public affairs, business administration, anthropology, history, or economics. Six of these twelve semester hours must be at the 300 level or above.

Undergraduate Certificate in Translation

Students receive an Undergraduate Certificate in Translation in French, German, Russian, or Spanish.

The emphasis of this program is on translation into English.

Admission to the Program

Open to all students who have completed the 300-level Conversation and Composition II language course or equivalent.

Course Requirements

- Fifteen semester hours at the 300 level or above of which at least twelve must be taken in the Department of Language and Foreign Studies.

  The remaining three semester hours may be a writing-intensive course chosen in another unit in consultation with the language adviser.

- Competency examination.

M.A. in Language and Foreign Studies

Admission to the Program

Requires a B.A. or an equivalent foreign degree and proficiency in the appropriate language and culture. Part-time as well as full-time students are welcome in the program.

Majors

French, Russian, or Spanish Studies

Degree and Major Requirements

- A total of thirty semester hours of approved graduate work with a 3.00 grade-point average (on 4.00 scale).

  Students may pursue Concentration Option A (French only) or B described below.

- Two written comprehensive examinations in the field or fields of core courses. One of these must be conducted in the foreign language. An oral interview in the foreign language precedes the written comprehensive to evaluate the student's preparedness.

- Thesis option: At least one 700-level seminar offered in the Department of Language and Foreign Studies and thesis preparation (usually expressed as three semester hours in 37.797).

  Nonthesis option: At least two advanced graduate seminars, one of which must be in the Department of Language and Foreign Studies. With special permission, the second seminar can be replaced with a supervised research project.

Concentration Option A (French only): Concentration in Language, Culture, Literature Studies consisting of at least twenty-four semester hours in appropriate courses and colloquia taught in the foreign language and offered by the Department of Language and Foreign Studies.

Concentration Option B: Concentration in Language Studies and one of the following areas: Anthropology, Communication and Media Studies, Education, History, International Affairs, International Business, Linguistics, Literature in Translation, or Sociology. The program consists of at least fifteen semester hours in approved courses taught in the foreign language and offered by the Department of Language and Foreign Studies and at least nine semester hours in courses in the chosen area of concentration outside the department.

Special Opportunities

The following study opportunities may partially satisfy course work in the chosen concentration: Graduate Certificate in Teaching English to Speakers of Other Languages, Certificate of Expertise in European Integration, and International Work-Study for academic credit through the Cooperative Education Program.

Graduate Certificate in Translation

Students receive a Graduate Certificate in Translation in French, German, Russian, or Spanish.

The emphasis of this program is on translation into English.

Admission to the Program

Open to all students who have a bachelor's degree and have completed the 300-level Conversation and Composition II language course or equivalent.

Course Requirements

- Fifteen semester hours at the 500 level or above of which at least twelve must be taken in the Department of Language and Foreign Studies.

  The remaining three semester hours may be a writing-intensive course chosen in another unit in consultation with the language adviser.

- Competency examination.

M.A. in Linguistics

Admission to the Program

Applicants to the Master's Program in Linguistics are subject to the minimum university requirements for admission

to graduate study. Further, a 3.00 average (on a 4.00 scale) in the undergraduate major and two letters of academic reference are required. International students are expected to demonstrate competence in English equivalent to a score of 600 or better on the Test of English as a Foreign Language (TOEFL). English instruction is available at the English Language Institute for students who meet all admissions requirements except for competence in English. Part-time as well as full-time students are welcome in the program.

Track

Specialization in Teaching English to Speakers of Other Languages.

Degree and Major Requirements

- At least thirty semester hours of approved graduate work in linguistics.
- An oral qualifying examination and a written comprehensive examination.

  The qualifying examination is an oral interview before an appointed committee to evaluate the student's preparedness for the written comprehensive examination.

  The written comprehensive examination is taken after completion of all required course work, based on the core courses (38.500, 38.501, 38.502), the courses below, and additional courses and reading lists as required.
- Thesis option: thesis and oral defense. (See Course Requirements below.)

  Nonthesis option: (See Course Requirements below.)

Course Requirements

Core Courses

- 38.500 Principles of Linguistics (3)
- 38.501 Theory and Practice of ELT I (3)
- 38.502 Theory and Practice of ELT II (3)
- Six hours from the following courses:
  38.521 History of Linguistics and Language Teaching (3)
  38.525 Teaching English for Specific Purposes (3)
  38.527 Sociolinguistics (3)
  38.620 Practicum in Teaching ESL/EFL (3)
- 38.700 Seminar in Linguistics (3)
- Six hours to be selected in consultation with an adviser.
- Thesis option: 38.797 Master's Thesis Seminar (6)

  Nonthesis option: six hours to be selected in consultation with an adviser.

Special Opportunities

The Office of Continuing Education and Conferences in cooperation with the Department of Language and Foreign Studies offers a certificate for nondegree students and to qualified undergraduate and graduate degree students at The American University in Teaching English to Speakers of Other Languages. The required courses in the certificate program (38.500, 38.501, and 38.502) and the two electives, if properly chosen, may be applied toward satisfaction of requirements for the M.A. in Linguistics.

Students who are enrolled in nondegree status for the certificate program and who wish to change to graduate status must do so on completion of no more than twelve semester hours of the certificate program.

The Department of Language and Foreign Studies also cooperates with the School of Education in offering a program in Teaching English to Speakers of Other Languages which leads to the M.A. in Education from the school and to a certificate from the department. For further details, see the description of the offerings of the School of Education in this publication.

Graduate Certificate in Teaching English to Speakers of Other Languages

Admission to the Program

Open to students with a bachelor's degree from an accredited institution. International students must demonstrate competence in English equivalent to a score of 600 or above in the Test of English as a Foreign Language (TOEFL).

Course Requirements

- 38.500 Principles of Linguistics (3)
- 38.501 Theory and Practice of ELT I (3)
- 38.502 Theory and Practice of ELT II (3)
- Two elective courses.

Literature

Chair Jo Radner

Full-Time Faculty

Professor R. von Abele (Emeritus), M.C. Batchelder (Emeritus), B.T. Bennett, C.M. Clark (Emeritus), P. Han (Emeritus), J.J. Jorgens, F. Kelly (Emerita), E.L. Kessler, F. King (Emerita), C.R. Larson, A. Lustig, K. Markandaya (Visiting), K. Mussell, M. Patton (Emerita), J.A. Roberts, R. Rubenstein, H.S. Taylor, F. Turaj, L. Young (Emerita)

Associate Professor A.P. Bean (Emeritus), J. Loesberg, K.W. Moyer, J.N. Radner, M. Sklarew, W.E. Stahr, S. Yarnall (Emerita), F.E. Zapatka

Assistant Professor T.F. Cannon, Jr., J. Lee, D.C. Payne, E. Smoodin

Concerned with the study of literature, writing, and film, the Department of Literature offers courses that embrace

many approaches to the rich heritage of written, oral, and cinematic tradition, as well as courses that challenge students to write creatively and professionally. In addition to taking courses, our students are encouraged at all levels of study to enroll in internships, to sample careers that use the skills they are developing in the classroom; Washington affords a wide range of job opportunities (many involving writing or editing) in settings such as arts organizations, radio and television, government offices, public interest organizations, museums, schools, and community groups.

The department's faculty of scholars and writers staff three degree programs in literature: B.A., M.A., and the M.F.A. in Creative Writing. All three programs offer students the chance to study literature, film criticism, and creative writing; all are small and flexible programs that bring students and faculty into close contact in small classes and informal gatherings and colloquiums. The M.A. program provides an overview of the literary history of our culture in addition to a series of seminars on theoretical topics in which students and faculty together consider what constitutes the discipline of literary criticism. The program of the M.F.A. in Creative Writing includes work in fiction, poetry, and filmscript; workshops with distinguished visiting writers; internships; and coursework in literature and in the arts of translation and literary journalism. It also offers students opportunities to give public readings, to meet with editors and publishers, and to produce a nationally known literary magazine.

In addition, the department offers two degree programs in the study of film, which take advantage of the impressive film resources of the Washington area. The B.A. in Literature: Cinema Studies is an interdisciplinary major combining course work in cinema and video criticism and history with experience in production; graduates of the program have gone on to work in such careers as film reviewing, theatre management, and film production. The M.A. in Film and Video, offered jointly with the School of Communication, is aimed at students with professional commitment to the field. The cinema programs show eighty to ninety feature films each semester and offer a full range of production facilities through the University Media Center.

The Visiting Writers Series

Each semester, the department sponsors public readings by nationally known poets, writers of fiction, and editors. These visitors also conduct workshops for graduate and undergraduate students of creative writing. Visiting writers during the 1986–1987 academic year were Julia Alvarez, Frank Conroy, Galway Kinnell, Kamala Markandaya, James Alan McPherson, and William Stafford.

B.A. in Literature

Admission to the Program

Formal admission to the major requires a 2.00 grade-point average and the approval of the department.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of forty-two semester hours with grades of C or better.

Course Requirements

- 23.140 Critical Reading (3)
- Three courses numbered from 23.210 to 23.231 (surveys of literature)
- Six courses numbered from 23.300 to 23.596 (topics courses in literature).

  One of the six courses must be in literature written before 1700 (other than Shakespeare), one in literature written between 1700 and 1900, and one devoted exclusively to literature other than English and American. No course will fulfill more than one of the specific chronological and geographical requirements.
- Four other courses offered or approved by the Department of Literature.

Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education chapter in this publication for information.

B.A. in Literature: Cinema Studies

Admission to the Program

Formal admission to the major requires a 2.00 grade-point average and the approval of the Cinema Studies Committee.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of forty-five semester hours with grades of C or better.
- A 3.00 average maintained in the major requirements.

Course Requirements

- 17.200 Writing for Mass Communication (3)

- 23.140 Critical Reading (3)
- 23.275 Critical Approach to the Cinema /A (3)
- 23.376 National Cinema (3)
- 23.378 Major Filmmakers (3)
- 23.380 Independent Filmmakers (3)

- 17.430 Photography: The Lens and Image (3) and
- 17.431 Basic Film and Audio Production (3)
  or
  17.558 History of Motion Pictures I /S (3) and
  17.559 History of Motion Pictures II /S (3)

- 23.375 Film and Literature (3)
  or
  23.402 Creative Writing: Film Script (3)

- 23.377 Popular Film Genres (3) or, by permission of adviser, a special topics course in film.

- 17.511 History of Documentary Film (3)
  or
  17.512 Television Documentary (3)

- Three additional courses in literature. With the adviser's approval, one of these may be a literature course taught in a foreign language.

- One course in theatre, music, or photography.

Minor in Literature

Requirements

- 23.140 Critical Reading (3)

- One course selected from the following:
  23.210 Major American Writers I: An Introductory Survey /A (3)
  23.211 Major American Writers II: An Introductory Survey /A (3)
  23.220 Major British Writers I: An Introductory Survey /A (3)
  23.221 Major British Writers II: An Introductory Survey /A (3)
  23.230 Major European Writers I: An Introductory Survey /A (3)
  23.231 Major European Writers II /A (3)

- Twelve semester hours in literature at 300 level or above.

Not more than one course in creative writing may be counted toward the minor.

Minor in Cinema Studies

Requirements

- 17.200 Writing for Mass Communication (3)
- 23.275 Critical Approach to the Cinema /A (3)

- Four courses from the following:
  23.375 Film and Literature (3)
  23.376 National Cinema (3)
  23.377 Popular Film Genres (3)
  23.378 Major Filmmakers (3)
  23.380 Independent Filmmakers (3)
  23.402 Creative Writing: Film Script (3)

- Two courses from the following:
  17.430 Photography: The Lens and Image (3) (taken with 17.431)
  17.431 Basic Film and Audio Production (3) (taken with 17.430)
  17.511 History of Documentary Film (3)
  17.512 Television Documentary (3)
  17.558 History of Motion Pictures I /S (3)
  17.559 History of Motion Pictures II /S (3) or another visual media course approved by adviser.

Undergraduate Certificate in Technical Writing

Admission to the Program

Open to students with a high-school diploma or the equivalent.

Certificate Requirements

- Nineteen semester hours of approved undergraduate study.

- A portfolio of documents prepared for courses.

- One approved noncredit workshop offered by the Office of Continuing Education and Conferences.

Course Requirements

- 23.201 Advanced Writing Workshop (3)
- 23.203 Business Writing (3)
- 23.496 Selected Topics (Nonrecurring): Introduction to Technical Materials (3)*
- 23.403 Technical and Report Writing (3)
- 17.532 Publication Layout and Design (3)
- 40.260 Introduction to Computing (4)
- How to Get and Communicate Information (noncredit)
- Public Speaking (noncredit)

*This course is being offered under an experimental number until a permanent course can be established. For a description, see the *Schedule of Classes*.

M.A. in Literature

Admission to the Program

Applicants for admission should have a 3.00 grade-point average (on a 4.00 scale) in undergraduate literature courses. The Graduate Record General Examination

recommended. An undergraduate major in literature is desirable, but applications from candidates who have majored in other fields will also be considered, provided that substantial study of literature has been done. Two letters of recommendation are required. Part-time as well as full-time students are welcome in the program.

Degree and Major Requirements

- A total of thirty semester hours of approved graduate work.
- Two written comprehensive examinations, which are usually taken in the final semester of study. The examinations are based upon a reading list prepared by the department.
- Thesis option: A two-semester project involving independent research under faculty direction (three semester hours) and thesis writing (three semester hours, 23.797).

  Nonthesis option: Six additional semester hours of course work and a critical essay of fifteen to twenty pages involving both research and independent thought. The essay may represent a careful revision of a paper prepared in the normal course of M.A. degree study.

Course Requirements

- At least two graduate seminars (23.7xx or 23.5xx), chosen from among those offered on a rotating basis by the department. Graduate seminar credit will also be given for participation in Folger Institute seminars.
- Eighteen additional semester hours of graduate seminars, advanced literature courses (23.500 through 23.796), and independent reading courses or study projects.

  With permission of the departmental adviser, a student may take up to six graduate semester hours outside the Department of Literature.
- Six additional semester hours to fulfill the thesis or nonthesis option.

M.A. in Film and Video

Offered jointly by the Department of Literature and the School of Communication.

Admission to the Program

An undergraduate grade-point average (on a 4.00 scale) of 3.00 for the last two years of study is required. Previous exposure to film study, film and video production, or script writing is not required, although all applicants are required to show evidence of professional commitment and career direction related to their program of study.

Admission is not limited to full-time students; however, those admitted will normally be expected to complete the program (thirty-three semester hours) within a twenty-four month period.

Address inquiries to Master's Program in Film and Video Committee, School of Communication.

A graduate application packet and a graduate film and video program brochure are available on request. The brochure describes a thousand-word statement of purpose required of all applicants to this program and provides a more detailed explanation of the purpose and content of the program. The statement of purpose (two copies) should be sent to the committee of the master's program in film and video.

Further inquiries should be addressed to the Office of Admissions and Financial Aid, to the School of Communication, or to the Department of Literature.

Degree and Major Requirements

- A total of thirty-three semester hours of approved graduate work.
- One comprehensive examination, 17.004 Film and General Communication.
- Thesis option: six semester hours in thesis research with a grade of B or better.

  Nonthesis option (students specializing in the areas of script writing or production): six hours involving an original creative work with a grade of B or better.

Course Requirements

- Courses are selected from the following areas, with emphasis determined by the student's interest: film production; video production; film theory, history, and criticism; and script writing.

  While a student may emphasize one of these areas in the design of an individual program, the program must include courses from all four areas. A student's program may also include courses in related areas such as performing arts. Students without experience in visual media at the undergraduate level are required to take 17.630 Photography: The Lens and Image and 17.631 Basic Film and Audio Production at the beginning of their regular program. These courses do not count towards the thirty-three semester hours required for the degree.

Note also: Film and video courses in the School of Communication and in the Department of Literature.

M.F.A. in Creative Writing

Admission to the Program

Applicants for admission should have at least a 3.00 grade-point average (on a 4.00 scale) in undergraduate courses. An undergraduate major in literature is desirable, but applications from candidates who have majored in other fields will be considered. Two letters of recommendation are required. Submission of samples of previous writing is required (thirty pages of fiction or fifteen pages of poetry) and an evaluation of these samples will have an important bearing on admission of applicants to the program.

Degree and Major Requirements

- A total of forty-eight semester hours of approved graduate work.

- Advancement to candidacy is automatic on admission to the program, but subject to yearly review.
- A book-length manuscript of fiction, poetry, or drama, to be approved by the creative writing faculty.
- One oral examination on the candidate's manuscript: its merits, characteristics, and relations to the works of others.

Course Requirements

- Twelve semester hours in writing workshops:
  23.700 Advanced Fiction Workshop
  23.701 Advanced Poetry Workshop
  23.702 Creative Writing: Film Script

  Students may concentrate on one genre or work in several.
- Twelve semester hours in literature courses selected from among the regular graduate-level literature offerings of the department.
- 23.705 Seminar on Translation (3)
- 23.710 Art of Literary Journalism (3) (or Freelance Writing)
- 23.691 Graduate Internship (6)

  Possible internship sites include the Writer's Center at Glen Echo, the Folger Shakespeare Library, the Library of Congress, the Writers-in-the-Schools programs, and affiliations with in-house and trade publishers.
- Six semester hours from the following:

  Additional writing workshops, offered here or elsewhere.

  Additional courses in literature, cinema studies, or performing arts.

  With the approval of an adviser, courses in foreign languages, journalism, or in any other discipline which seems germane to the individual student's interest and consistent with the objectives of the program.
- Six semester hours of Master's Thesis Seminar.

Graduate Certificate in Technical Writing

Admission to the Program

Open to students with a bachelor's or advanced degree from an accredited institution.

Certificate Requirements

- Fifteen semester hours of approved graduate study.
- A portfolio of documents prepared for courses.
- Two approved noncredit workshops offered by the Office of Continuing Education and Conferences.

Course Requirements

- 42.696 Selected Topics (Nonrecurring): Introduction to Technical Materials (3)*
- 23.703 Technical and Report Writing (3)
- 17.532 Publication Layout and Design (3)
- 40.696 Selected Topics (Nonrecurring): Computer Applications for Technical Writers (3)*
- 40.696 Software Development (3)*
- How to Get and Communicate Information (noncredit)
- Public Speaking (noncredit)

*These courses are being offered under experimental numbers until permanent courses can be established. For descriptions, see the *Schedule of Classes* for the semester of course offering.

Mathematics

Chair Austin M. Barron

Full-time Faculty

Professor J. Blum, D.S. Crosby, M.W. Gray, R.A. Holzsager, R.W. Jernigan, B.P. Korin, G. Quinn (Emerita), S.H. Schot

Associate Professor A.M. Barron, I.L. Chang, L.J. Crone, M. Greene

Assistant Professor E. Adams, N. Baya'a, P. Healy, L. Long, H. Wilson

The Department of Mathematics, Statistics, and Computer Science combines the resources and knowledge of these related disciplines. This enables the department to offer unusually varied and flexible programs. A student with an interest in the mathematical sciences may choose a program within the department and later change his or her emphasis without a great loss of time because the programs share a common core.

The university's Washington, D.C., location affords the student access to many governmental, cultural, scientific, and historical institutions. These institutions serve as an important research resource. In addition, they are a source of full-time and part-time employment opportunities for students with a firm grounding in the mathematical sciences.

Mathematics may be studied as an intellectual discipline for its own sake or as a professional tool for application to the problems of other disciplines. Majors in Mathematics will receive firm grounding in the theory and techniques of algebra, analysis, and other fields as a basis for further work in pure or applied mathematics and for graduate studies. The major in Applied Mathematics offers training in mathematical problem-solving techniques without emphasis on abstract theory. This program is not as firm a foundation for graduate work as the mathematics major, but is tailored to the student who will need to apply mathematical, statistical, and computer methods to practical problems.

Undergraduate Honors Program

Departmental honors are available for qualified undergraduates with majors in mathematics, applied mathematics, statistics, and computer science. Requirements include an

overall 3.20 grade-point average, a 3.60 grade-point average in the major, certain course requirements, and a research project and honors paper. Interested students should consult the chair of the Department Honors Committee for details.

Special Opportunities

The department employs a number of its undergraduates in its tutoring lab and in the computer labs. The department also offers a limited number of book scholarships to its undergraduates. Applications should be submitted by the end of July preceding the academic year for which aid is requested. Work-study awards are also available. For more information, consult the financial aid office.

B.S. in Mathematics

Admission to the Program

Requires a 2.00 cumulative grade-point average and the completion of 41.221, 41.222, and 41.223 with grades of C or better.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of forty-eight semester hours with grades of C or better.

Course Requirements

- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.512 Introduction to Modern Algebra I (3)
- 41.513 Introduction to Modern Algebra II (3)
- 41.520 Introduction to Analysis I (3)
- 41.521 Introduction to Analysis II (3)
- Four courses selected from the following, with at least one from each of the following groups:

  Group A

  40.460 Introduction to Numerical Methods (3)
  41.321 Differential Equations (3)
  41.501 Probability (3)
  41.550 Complex Variables for Applications (3)
  41.551 Mathematics for Physics (3)
  42.502 Introduction to Mathematical Statistics (3)

  Group B

  41.322 Advanced Calculus (3)
  41.515 Number Theory (3)
  41.540 Topology (3)

- Three courses in a field of application, to be selected in consultation with the adviser. (This requirement may be waived for students with more than one major in this department and for students obtaining secondary teaching certification in mathematics.)

Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education chapter in this publication for information.

B.S. in Applied Mathematics

Admission to the Program

Requires a 2.00 cumulative grade-point average and the completion of 41.221, 41.222, and 41.223 with grades of C or better.

Tracks

Applications or Secondary Mathematics Teaching.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of fifty-nine semester hours with grades of C or better for Applications; forty-eight semester hours for Secondary Mathematics Teaching.

Course Requirements

Applications

- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.321 Differential Equations (3)
- 41.501 Probability (3)
- 41.550 Complex Variables for Applications (3)
- 41.551 Mathematics for Physics (3)
- 40.280 Introduction to Computer Science I /N (4)
- 40.281 Introduction to Computer Science II /N (3)
- 40.460 Introduction to Numerical Methods (3)
- 42.502 Introduction to Mathematical Statistics (3)

- Three additional mathematics electives, to be selected in consultation with the student's adviser.

Related Courses

- 51.220 University Physics I /N (3)
- 51.221 University Physics II /N (3)
- 51.222 General Physics Laboratory I (2)
- 51.223 General Physics Laboratory II (2)

(or alternative science courses if approved by adviser)

Secondary Mathematics Teaching

- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.322 Advanced Calculus (3)
- 41.501 Probability (3)
- 41.540 Topology (3)

- Five additional departmental courses approved by the mathematics education adviser.

- Three courses in a field of application, to be selected in consultation with the adviser. This requirement may be waived for students with more than one major in this department, except for students obtaining secondary teaching certification in mathematics, who should consult with the mathematics education adviser for the appropriate education courses.

Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education chapter in this publication for information.

Minor in Mathematics

Requirements

- 41.310 Linear Algebra (3)

- 41.221 Calculus I /N (4) and
- 41.222 Calculus II /N (4)
  or
  41.211 Applied Calculus I /N (4) and
  41.212 Applied Calculus II /N (3)

- Three courses numbered 41.xxx at the 300 level or above.

Minor in Quantitative Methods

Course Requirements

- 41.310 Linear Algebra (3)

- 40.260 Introduction to Computing /N (4)
  or
  40.280 Introduction to Computer Science I /N (4)

- 41.221 Calculus I /N (4) and
- 41.222 Calulus II /N (4)
  or
  41.211 Applied Calculus I /N (4) and
  41.212 Applied Calculus II /N (3)

- Two courses in statistics numbered 42.3xx or above (for limitation on statistics courses that may be chosen, see description of statistics minor).

Five-Year Programs

Admission to Programs

The five-year programs enable qualified undergraduates (students with a grade-point average of 3.2 on a 4.0 scale in major courses) to earn both a bachelor's and a master's degree within five years. There are several options available: the student may choose the same major at the undergraduate and graduate level; the student may enter the master's program in computer science with an undergraduate major in mathematics; or the student may enter the master's program in statistics with an undergraduate major in mathematics. All students should apply by the end of the junior year.

B.S./M.A. in Mathematics

Additional Admission Requirements

Applicants must have completed 41.512, 41.513, 41.520, and 41.521 by the end of the junior year.

Degree and Major Requirements

- A total of seventy-two hours of course work.

- An approved tool of research.

- Comprehensive examination.

- Thesis option: Six hours of 41.797 Master's Thesis Seminar in Mathematics and an oral defense of the thesis.

  Nonthesis option: Three semester hours in 41.690 Independent Study Project in Mathematics or 41.700 Seminar in Mathematics, requiring an oral and written presentation of the research work. Three additional hours in approved graduate-level independent research, seminars, or research courses.

Course Requirements

- All requirements for the B.S. in mathematics. Senior-year courses must include a one-year major course sequence acceptable towards a master's degree, but to count towards the B.S. only.

- Eighteen semester hours of graduate courses in mathematics.

- Six semester hours of course work to fulfill the thesis or nonthesis option.

B.S./M.A. in Applied Mathematics

Additional Admission Requirements

This option is not open to those students who followed the curriculum for Secondary Mathematics Teaching.

Degree and Major Requirements

- A total of eighty-three semester hours of course work.
- An approved tool of research.
- Comprehensive examination.
- Thesis option: Six hours of 41.797 Master's Thesis Seminar in Mathematics and an oral defense of the thesis.

  Nonthesis option: Three semester hours in 41.690 Independent Study Project in Mathematics or 41.700 Seminar in Mathematics requiring an oral and written presentation of the research work. Three additional hours in approved graduate-level independent research, seminars, or research courses.

Course Requirements

- All requirements for the B.S. in applied mathematics, applications track.
- Twelve semester hours of graduate courses in mathematics.
- Six semester hours chosen within the department or an application area approved by the department.
- Six semester hours of course work to fulfill the thesis or nonthesis option.

B.S./M.A. in Statistics or Mathematics and Statistics

For a description of this program, see "Statistics" in this publication.

B.S./M.S. in Mathematics and Computer Science

A qualified student can earn a B.S. in Mathematics and an M.S. in Computer Science.

Additional Admission Requirements

Applicants must have completed 40.280, 40.281, 40.282, 40.340, and 40.341 by the end of the junior year.

Degree and Major Requirements

- A total of eighty-nine semester hours of course work.
- An approved tool of research.
- Comprehensive examination.
- Thesis option: Six hours of 40.797 Master's Thesis Seminar in Computer Science and an oral defense of the thesis.

  Nonthesis option: Six hours of independent research project, seminar, or other research courses approved by the department.

Course Requirements

- All requirements for the B.S. in mathematics.
- 40.280 Introduction to Computer Science I /N (4)
- 40.281 Introduction to Computer Science II /N (3)
- 40.282 Assembly-Language Programming (4)
- 40.340 Data Structures and Algorithms (3)
- 40.341 Organization of Programmming Languages (3)
- Twelve semester hours of computer science courses at the 500 level or above, including 40.540 Computer Systems Organization and Programming.
- Six additional semester hours of approved courses in the department at the 500 level or above.
- Six semester hours of course work to fulfill the thesis or nonthesis option.

M.A. in Mathematics

Admission to the Program

Requires an undergraduate degree in mathematics. Students entering the M.A. program without the appropriate background will be expected to take certain undergraduate courses as prerequisite work.

Degree and Major Requirements

- A total of thirty semester hours of graduate course work, including thesis or nonthesis option requirements.
- Proficiency is required in Russian, German, French, or a computer language as a tool of research.
- A written comprehensive examination in either mathematics, 41.050, or applied mathematics, 41.051.
- Thesis option: Six hours of 41.797 Master's Thesis Seminar in Mathematics and an oral defense of the thesis.

  Nonthesis option: Three semester hours in 41.690 Independent Study Project in Mathematics or 41.700 Seminar in Mathematics (topic to be chosen by consultation between student and faculty member) requiring an oral and written presentation of the research work. Three hours in approved graduate-level independent research, seminars, or research courses.

Ph.D. in Mathematics Education

Admission to the Program

A master's degree in either education or mathematics and two letters of recommendation are required.

Degree and Major Requirements

- A total of forty-two semester hours of approved graduate work in addition to credit earned for the master's degree.

  Twelve of the forty-two semester hours should be in Doctoral Dissertation, xx.799, six of which must be earned through the Department of Mathematics, Statistics, and Computer Science, and six through the School of Education.

  The department and school should be consulted with respect to the specific course requirements which must be satisfied in mathematics and education.

- Proficiency in two tools of research.

  One tool must be statistics (given by the Department of Mathematics, Statistics, and Computer Science). The second tool may be French, German, Russian, or a computer language.

- Four comprehensive examinations.

  Two of these comprehensive exams are administered by the School of Education and two by the Department of Mathematics, Statistics, and Computer Science. The examinations in mathematics are (1) Mathematics for Mathematics Education (written) and (2) Oral Examination in Mathematics. The examinations in education are (1) Oral Examination in Education and Mathematics Education and (2) a written examination. The written examination in education is usually in Curriculum and Instruction (based on courses 21.520, 21.583, and 21.587). However, in special cases, depending on experience and interest, other fields are available, such as Learning Disabilities or Education Administration.

- Dissertation directed by a full-time faculty member and an oral defense of the dissertation.

Performing Arts: Music, Theatre, Dance, and Arts Management

Chair Valerie Morris

Full-Time Faculty

Professor C. Crowder, E.S. Hayes (Emerita), A.R. Mandel, V.E. Mason (Emeritus), J.L. McLain (Emeritus), G.C. Schuetze, G. Smith (Emeritus), E. Vrenios

Associate Professor M. Andrews, K. Baker, H. Mardirosian, V. Morris, J. Sapieyevski

Assistant Professor B. Baranovic, L. Gottfried, G. Humphries, A. McDonald, R. Walsh

The Department of Performing Arts provides intensive professional training in each of its disciplines: music, theatre, dance, and arts management.

The programs offer a unique blend of classroom work and performance experience. Each year a season of plays, orchestra and choral concerts, opera, and dance concerts augments classroom learning with actual experience. Similarly, the graduate Arts Management program provides hands-on experience through field studies and an internship with a local or national arts organization.

The Visiting Artists and Artists-in-Residence programs in the Department of Performing Arts provide the student with opportunities to meet and work with well-known professionals in each of the disciplines. Recent guest artists in dance include Deborah Gladstein, Ruth Barnes, Laura Dean, and Barbara Roan. For the musicians, the world renowned Tokyo String Quartet, in residence at the university, offers chamber music coaching, open rehearsals, and readings of student compositions. Other ensembles in residence include Hesperus, specializing in early music, and the Washington Music Ensemble, which features faculty members Alan Mandel and Elizabeth Vrenios. In addition, master classes are held annually with famous musical performers such as Elizabeth Schwarzkopf and Leon Fleischer. Theatrical guest artists have included Mabou Mines, Joshua Logan, and Richard Schechner.

The dynamic interaction of performance experience, theoretical and historical understanding, and exposure to well-established professionals is designed to prepare the student for a professional or teaching career. The Washington, D.C., area is the home of many arts organizations, including the John F. Kennedy Center for the Performing Arts, the Washington Ballet, the Wolf Trap Farm Park for the Performing Arts, the National Symphony, and The Arena Stage. In addition, Washington, D.C., hosts many international artists and performing arts groups. This environment provides an excellent climate for the nurturing of the creative spirit.

B.A. in Music

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of fifty-nine semester hours with grades of C or better.

Course Requirements

- 67.120 Music Appreciation I /A (3)
- 67.121 Music Appreciation II (3)
- 67.124 Music Theory I: Basic Harmony and Analysis (3)
- 67.125 Music Theory II: Continuing Harmony (3)
- 67.127 Musicianship I (3)

- 67.128 Musicianship II (3)
- 67.224 Music Theory III: Modal Counterpoint (3)
- 67.225 Music Theory IV: Counterpoint/Fugue (3)
- 67.227 Musicianship III (3)
- 67.228 Musicianship IV (3)
- 67.322 History of Music I (3)
- 67.323 History of Music II (3)
- 67.324 Music Theory V: Analysis/Advanced Harmonic Forms (3)
- 67.325 Music Theory VI: The Twentieth Century (3)

Any of these courses may be waived by examination.

- Four semesters of applied music.
- Two semesters from the following:
  67.142 University Chorale (1)
  67.143 University Singers (2)
  67.144 University Orchestra (1)
- Two additional semesters in any faculty-conducted ensemble.
- Nine semester hours of electives in music.

Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education chapter in this publication for information.

Note: Students intending to pursue graduate work in music are advised to fulfill the more extensive requirements of the B.Mus. or B.M.Ed. degrees.

Bachelor of Music (B.Mus.)

Tracks

Composition, Music History, Performance (piano, voice, strings, brass, woodwinds, percussion, organ, harp, guitar, harpsichord, and conducting), and Theory.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

(See "Undergraduate Study" for details.)

Major Requirements

- A total of at least fifty-nine semester hours (or more, depending on the chosen track) with grades of C or better.
- Senior comprehensive examination in music history and theory.
- Recital or half recital. Students must register in a major applied music area in the semester the recital is given. See requirements listed in individual tracks.

Course Requirements

- 67.120 Music Appreciation I /A (3)
- 67.121 Music Appreciation II (3)
- 67.124 Music Theory I: Basic Harmony and Analysis (3)
- 67.125 Music Theory II: Continuing Harmony (3)
- 67.127 Musicianship I (3)
- 67.128 Musicianship II (3)
- 67.224 Music Theory III: Modal Counterpoint (3)
- 67.225 Music Theory IV: Counterpoint/Fugue (3)
- 67.227 Musicianship III (3)
- 67.228 Musicianship IV (3)
- 67.322 History of Music I (3)
- 67.323 History of Music II (3)
- 67.324 Music Theory V: Analysis/Advanced Harmonic Forms (3)
- 67.325 Music Theory VI: The Twentieth Century (3)
- 67.326 Orchestration (3)

Any of the above may be waived by examination.

- Participation in one faculty-conducted ensemble for each semester of full-time attendance here (or the equivalent for part-time attendance), one half or more of this participation being in 67.142 University Chorale (1), 67.143 University Singers (2), or 67.144 University Orchestra (1).

Composition

- Four semesters of 68.122 Private Instrumental or Vocal Study for eight semester hours.
- Four semesters of 68.444 Composition, 67.537 Music: Analytical Studies and/or 67.524 Studies in Music Theory (may be repeated for credit) for a total of six semester hours.
- Full recital of original compositions.

Music History

- Three of the following:
  67.520 Studies in Music Literature (3)
  67.529 Medieval Music (3)
  67.530 Renaissance Music (3)
  67.531 Music of the Baroque Era (3)
  67.532 Music of the Classical Era (3)
  67.533 Music of the Romantic Period (3)
  67.534 Music of the Twentieth Century (3)
  67.535 Studies in Music History (3)
  67.536 Research Methodology in Music (3)
- Half recital.

Performance

- 67.543 Pedagogy I (2)
- 67.544 Pedagogy II (2)
- Full (senior) recital.
- Half (junior) recital.

Theory

- 67.524 Studies in Music Theory (3)

- 67.537 Music: Analytical Studies (3)
- 68.444 Composition (3)
- Half recital.

Recommendations

Registration in major applied area each semester. Reading knowledge of German for music history specialists. Study of French, German, and Italian diction for voice and accompanying specialists.

Minor in Music

Requirements

- Twenty-four semester hours in music with at least twelve hours at the 300 level or above, including at least twelve semester hours from the following:
  - 68.100 Class Instrumental Study (1)
  - 68.101 Class Vocal Study (1)
  - 68.121 Private Instrumental or Vocal Study (1)
  - 68.122 Private Instrumental or Vocal Study (2)
  - 67.322 History of Music I (3)
  - 67.323 History of Music II (3)
  - 67.124 Music Theory I: Basic Harmony and Analysis (3)
  - 67.125 Music Theory II: Continuing Harmony (3)
  - 67.324 Music Theory V: Analysis/Advanced Harmonic Forms (3)
- At least twelve of the required twenty-four semester hours must be taken in residence at The American University. Students must be assigned a departmental adviser if they intend to pursue the minor.

B.A. in Performing Arts: Theatre

Admission to the Program

Requires some previous theatre experience and demonstrated talent during a one-year probationary period.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of at least thirty-one semester hours with grades of C or better.
- Participation in one theatre program production each semester and stage manager of one of these productions before graduation.

Course Requirements

- 67.150 Introduction to Performing Arts: Theatre /A (3)
- 67.251 Basic Acting I /A (3)
- 67.260 Principles of Production I /A (3)
- 67.352 Beginning Directing I (3)
- 67.365 World Theatre I (3)
- 67.366 World Theatre II /A (3)
- 67.367 Modern American Theatre and Drama /A (3)
- A total of four semester hours in theatre practicum (no more than one hour a semester) as approved by theatre faculty (at least two semester hours must be in technical production).
- Three semester hours in technical/design areas (may include independent study).

  Students preparing for teacher certification must take:
  21.300 Foundations of Education /S (3)
  21.320 Psychology of Education /S (3)
  21.446 Student Teaching (8–15)
- The remainder of departmental course requirements are determined by close counsel with the adviser.

Special Opportunities

Junior and senior honors work for selected students.

Teacher Certification

Students interested in teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education chapter in this publication for information.

Minor in Theatre

Requirements

Twenty-four semester hours in theatre with a minimum of twelve hours at the 300 level or above, as follows:

- 67.150 Introduction to Performing Arts: Theatre /A (3)
- 67.251 Basic Acting I /A (3)
- 67.260 Principles of Production I /A (3)
- 67.450 Rotating Topics in Theatre (3)
  or
  67.557 Creative Writers' Performance Laboratory (3)
- One of the following:
  67.361 Costume Design (3)
  67.362 Lighting Design (3)
  67.363 Scene Design (3)
- One of the following:
  67.350 Scene Study (3)
  67.351 Movement for Actors (3)
  67.355 Speech and Voice for the Theatre (3)
  67.450 Rotating Topics in Theatre (3)
  67.555 TV Performance I (3)
- Two of the following:

67.365 World Theatre I (3)
67.366 World Theatre II /A (3)
67.367 Modern American Theatre and Drama /A (3)
67.566 Seminar in Theatre History (3)

At least twelve of the required twenty-four semester hours must be taken in residence at The American University. Students must be assigned a departmental adviser if they intend to pursue the minor.

Minor in Dance

Requirements

- Twenty-four semester hours in dance with at least twelve hours at the 300 level or above, including:
  67.506 The Moving Body (3)
  67.507 Principles of Movement (3)

  67.411 Composition of Dance I (3)
  or
  67.412 Composition of Dance II (3)

  67.305 History and Philosophy of Dance I (3)
  or
  67.306 History and Philosophy of Dance II (3)
- At least twelve of the required twenty-four semester hours must be taken in residence at The American University.
- Students must be assigned a departmental adviser if they intend to pursue the minor. Each student completing the minor must achieve some proficiency in dance performance. Required levels of proficiency are decided individually in conference with the director of the dance program, and take into account the student's interests, background, and abilities in dance.

Teacher Certification

Students preparing for teacher certification must be admitted to the secondary teacher certification program in the School of Education. Consult the School of Education chapter in this publication for information.

M.A. in Performing Arts: Dance

Admission to the Program

Requires a bachelor's degree with eight to ten courses or the equivalent in undergraduate dance, theatre, or music, half of which must be in dance. Equivalent training is understood to be four to six years' experience in a professional company or organization. Students entering the program with this background will be asked for an interview, at which time any deficiencies will be determined. Two letters of recommendation are required. Provisional admission may be granted and is removed at the completion of twelve semester hours of work in the department with a grade-point average of 3.00 on a 4.00 scale.

Degree and Major Requirements

- A total of thirty-six semester hours of approved graduate work.

  Courses are based on the student's chosen area of focus and are selected in consultation with an adviser.

  Students are urged to structure their degree programs so as to develop individual talent and may do so in close counsel with their advisers.
- Advancement to candidacy on completing twelve to eighteen semester hours with a grade-point average of 3.00 or better on a 4.00 scale, removing any undergraduate deficiencies, and with the written recommendation of the student's faculty adviser.
- A four-hour comprehensive examination covering three areas as determined by the student and adviser.
- Thesis option: 67.797 Master's Thesis Seminar and a written research project in the field of history, criticism, or related areas approved by the adviser, committee, and the department graduate studies committee before work begins.

  Nonthesis option: 67.798 Nonthesis Option Seminar which may include a performance in the area of the student's specialization, e.g., choreography or dance performance approved by the adviser, committee, and the department graduate studies committee before work begins. The completed project includes a written production book.

Special Opportunities

Information regarding graduate assistantships in dance is available from the department.

M.A. in Music

Admission to the Program

Composition specialists must submit three or more original works of different kinds. Two letters of recommendation are required. Performance specialists must audition, either in person or by tape recording. Depending on previous experience, a student may be admitted with deficiencies which must be removed by appropriate course work or by waiver examination. During the first week of graduate work all new students are required to take the Graduate Placement Examination in Theory and History, unless waived by the director of music, to determine possible deficiencies in these basic areas.

Tracks

Composition, Musicology, Performance (piano, strings, brass, woodwinds, percussion, organ, harp, guitar, harpsichord, and conducting), Theory, and Piano/Vocal Pedagogy.

Degree and Major Requirements

- A total of thirty semester hours of approved graduate work.
- Advancement to candidacy on completing twelve to eighteen semester hours with a grade-point average of 3.00 or higher on a 4.00 scale, removing any undergrad-

nate deficiencies, and with the written recommendation of the student's faculty adviser.

- Proficiency in German, French, or an approved substitute is required as a tool of research for students writing a musicology thesis.
- Two comprehensive examinations: one in music history and theory, and one in student's field of specialization taken during or after the semester in which the required course work is completed and before registering for 67.749, 67.797, or 67.798. The second examination for performance specialists is the Master's Recital.
- Thesis or an approved substitute.

  Composition Track: 67.798 Nonthesis Option Seminar (a large composition with a jury or public performance)

  Musicology Track: 67.797 Master's Thesis Seminar

  Performance Track: 67.797 Master's Thesis Seminar or 67.749 Research Performance: Lecture Recital.

  Theory Track: 67.797 Master's Thesis Seminar

  Piano/Vocal Pedagogy Track: 67.797 Master's Thesis Seminar or 67.798 Nonthesis Option Seminar.

Course Requirements

Composition

- 67.537 Music: Analytical Studies (3)
- 68.794 Advanced Composition (3)
- Eighteen semester hours of electives to complete twenty-four semester hours of course work.
- Six semester hours to fulfill the nonthesis option.

Musicology

- 67.536 Research Methodology in Music (3)
- Four or more of the following (graduate-level music history and literature courses):
  67.520 Studies in Music Literature (3)
  67.529 Medieval Music (3)
  67.530 Renaissance Music (3)
  67.531 Music of the Baroque Era (3)
  67.532 Music of the Classical Era (3)
  67.533 Music of the Romantic Period (3)
  67.534 Music of the Twentieth Century (3)
  67.535 Studies in Music History (3)
- Nine semester hours of electives to complete twenty-four semester hours of course work.
- Six semester hours to fulfill the thesis option.

Performance

- 67.536 Research Methodology in Music (3)
- 67.537 Music: Analytical Studies (3)
- 67.543 Pedagogy I (2)
- 67.544 Pedagogy II (2)
- Four to six semester hours of applied music at the graduate level (67.527 Advanced Conducting, for conducting specialists).
- Eight to ten semester hours of electives to complete twenty-four semester hours of course work.
- Six semester hours to fulfill the thesis or nonthesis option.

Theory

- 67.524 Studies in Music Theory (3)
- 67.536 Research Methodology in Music (3)
- 67.537 Music: Analytical Studies (3)
- Fifteen semester hours of electives to complete twenty-four semester hours of course work.
- Six semester hours to fulfill the thesis option.

Piano/Vocal Pedagogy

- 67.536 Research Methodology in Music (3)
- 67.543 Pedagogy I (2)
- 67.544 Pedagogy II (2)
- 67.547 Pedagogy III (3)
- 67.528 Diction for Singers (2)
  or
  Advanced Chamber Music
- Six semester hours of applied music at the graduate level; supervised teaching.
- Fifteen semester hours of electives to complete twenty-four hours of course work.
- Six semester hours to fulfill the thesis or nonthesis option.

Note: Course work may not include more than four semester hours of 67.545, more than four semester hours of graduate-level applied music (six for performance and composition majors), or more than six semester hours of graduate-level nonmusic courses or independent study (such courses must be approved in advance by the department chair).

M.A. in Performing Arts: Arts Management

Admission to the Program

Requires a bachelor's degree with eight to ten courses in undergraduate theatre, dance, music, or visual arts, one-third of which must be advanced work or its equivalent. Equivalent training is understood to be four to six years experience in a professional company or organization. Students entering the program with this background will be asked for an interview at which time any deficiencies will be determined. Two letters of recommendation are required. Provisional admission may be granted and is removed at the completion of twelve semester hours of work with a grade-point average of 3.00 on a 4.00 scale.

Degree and Major Requirements

- A total of forty-five semester hours of approved graduate work.
- Advancement to candidacy on completing twelve to eighteen semester hours with a grade-point average of

3.00 or better on a 4.00 scale, removing any undergraduate deficiencies, and with the written recommendation of the student's faculty adviser.

- A four-hour comprehensive examination covering three areas: arts management, administration, and an art area of specialization.
- 67.691 Performing Arts: Internship (6)
  or
  67.692 Cooperative Education Field Experience (1-6)
- A thesis written in conjunction with 67.797 Master's Thesis Seminar (6).

Course Requirements

- 67.570 Survey of Arts Management (3)
- 67.571 Promotion and Public Relations for Performing Arts (3)
- 67.572 Case Studies in Performing Arts Management (3)
- 67.573 Fund-Raising Management for the Arts (3)
- 67.585 Creative Theories and Criticism in Performing Arts (3)
- Two electives in nonmanagerial arts-related topics.
- Six semester hours to fulfill the thesis requirement.
- The remainder from courses in business administration, communications, public relations, or public administration.

Graduate Certificate in Arts Management

Admission to the Program

Students must have a bachelor's degree from an accredited college or university and a 3.0 Grade Point Average (on a scale of 4.0) in the last sixty semester hours of study. They must have taken eight to ten courses in theater, dance, music, or visual arts—one third of which should be advanced work or equivalent training. Equivalent training is four to six years experience in a professional organization. Application and official transcripts should be submitted to the University Programs Advisement Center. Students are also encouraged to schedule a personal interview with the program director.

Certificate Requirements

- Fifteen semester hours of approved graduate study.
- Two approved noncredit courses in Volunteer Management.

Course Requirements

- 67.570 Survey of Arts Management (3)
- 67.571 Promotion and Public Relations for Performing Arts (3)
- 67.572 Case Studies in Performing Arts Management (6) (Two case studies must be taken to satisfy this requirement.)
- 67.573 Fund-Raising Management for the Arts (3)
  or
  67.585 Creative Theories and Criticism in Performing Arts (3)
- 904 Supervisory Skills for Volunteer Managers (noncredit)
- One from the following:
  912 Fund-Raising for Nonprofit Organizations (noncredit)
  915 Proposal Writing for Nonprofit Organizations (noncredit)
  Introduction to the IBM PC (noncredit)

Philosophy and Religion

Chair Charles S.J. White

Full-Time Faculty

Professor H.A. Durfee (William Frazier McDowell Professor), C.D. Hardwick, J.H. Reiman, T.R. Rosché, R.T. Simonds, C.S.J. White

Associate Professor G. Greenberg, D.F.T. Rodier, P.H. Scribner

Philosophy can be the avenue to develop skills in clear thinking and accurate writing. It offers the challenge of interpreting the work of the individuals who have created our intellectual traditions. Philosophy probes the nature of the real world, the basis of human values, and the foundations of reason. Students at The American University approach these issues through study of both historical literature and contemporary developments. Graduates of our undergraduate program pursue graduate work not only in philosophy but in such related areas as history and literature.

Many positions in science and industry require the kinds of analytical skills gained through the study of philosophy. Philosophy teaches precision in reasoning and clarity in expression—assets in any field. The study of philosophy has often preceded preparation for law, medicine, social work and the ministry, and other professional careers. The Washington consortium of universities also offers a wide variety of courses in philosophy that American University students can take.

Religion is not only for those planning professional careers in the field. The study of Western and Eastern religious traditions introduces students to a major influence on all civilizations. Few other university programs can so vividly set the American experience in a comparative cultural context. Future journalists, diplomats, and government specialists will benefit from a serious consideration of the inner workings of the religious ethos of civilizations. We are reminded by daily events that there is no more motivating a factor in the cultures of nations than ardently held religious belief. A

thorough understanding of the modern world requires familiarity with its religious heritage.

The American University's Washington setting is advantageous for the study of religion. Christian and Jewish groups maintain national offices in the capital; representatives of non-Western religions have shrines in the metropolitan area. The religious leadership centered in Washington, D.C., welcomes the interest of students in their way of life.

The department has a special sharing arrangement with Old Dominion University of Norfolk, Virginia, for the department's doctoral program. For further information, consult the department.

B.A. in Philosophy

In addition to the major, students in the honors track receive Departmental Honors in Philosophy.

Admission to the Program

The department counsels freshmen and new transfer students. Admission is through a formal declaration of major.

Tracks

Regular or Honors.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- Regular Track: a total of thirty-nine semester hours with grades of C or better or P (pass in courses taken pass-fail).

  Honors Track: a total of thirty-nine semester hours with grades of C or better or, in no more than nine semester hours, P (pass in courses taken pass-fail). One language through intermediate level: French, German, Greek, or Latin. Another language may be accepted if related to the student's research interests.

Course Requirements

Regular Track

- Thirty semester hours in philosophy and religion including up to nine semester hours in religion.
- Nine additional semester hours at the 300 level or above in a single department.

Honors Track

- 60.100 Introduction to Logic /N (3)
- 60.300 Ancient and Medieval Philosophy /A (3)
- 60.301 Modern Philosophy from Bacon to Hegel /A (3)
- Twenty-one semester hours in philosophy and religion including up to nine hours in religion courses at the 300 level or above.
- Nine additional semester hours at the 300 level or above in a single department or area.
- Six semester hours of 60.498 Honors Project in Philosophy, including a senior thesis, or a final comprehensive examination, one part of which is based on an acceptable research paper. The six hours of 60.498 may be counted toward the requirements listed above.

B.A. in Religion

Admission to the Program

The department counsels freshmen and new transfer students. Admission is through a formal declaration of major.

Tracks

Regular or Honors.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- Regular Track: a total of thirty-nine semester hours with grades of C or better or P (pass in courses taken pass-fail).

  Honors Track: a total of thirty-nine semester hours with grades of C or better or, in no more than nine semester hours, P (pass in courses taken pass-fail). One language through the intermediate level: French, German, Spanish, Latin, Greek, Hebrew, or Sanskrit. Another language may be accepted if related to the student's research interests.

Course Requirements

Regular Track

- Thirty semester hours in religion and philosophy including up to nine hours in philosophy or Jewish studies.
- Nine additional semester hours at the 300 level or above in a single department.

Honors Track

- 61.183 Comparative Religion /A, S (3)
- Nine hours from the following:

61.150 Introduction to the Old Testament (3)
61.170 Introduction to the New Testament (3)
61.180 Introduction to Religious Thought /A (3)
61.270 Religious Heritage of the West /A (3)

- Three semester hours from advanced-level courses in non-Judaeo-Christian religious traditions.
- Fifteen additional semester hours in religion and philosophy including up to nine hours in philosophy or Jewish studies or both at the 300 level or above.
- Nine additional hours at the 300 level or above in a single department.
- Six semester hours of 61.498 Honors Project in Religion including a senior thesis or a final comprehensive examination, one part of which will be based on an acceptable research paper. The six hours of 61.498 may be counted toward the requirements listed above.

Minor in Philosophy

Requirements

- 60.100 Introduction to Logic /N (3)
- One course from the following:
  60.101 Introduction to Philosophy /A (3)
  60.300 Ancient and Medieval Philosophy /A (3)
  60.301 Modern Philosophy from Bacon to Hegel /A (3)
- Fifteen semester hours in philosophy (or twelve semester hours in philosophy and three semester hours in religion).
- Twelve of the total semester hours must be at the 300 level or above.

Minor in Religion

Requirements

- Nine semester hours chosen from the following:
  61.150 Introduction to the Old Testament (3)
  61.170 Introduction to the New Testament (3)
  61.180 Introduction to Religious Thought /A (3)
  61.183 Comparative Religion /A, S (3)
  61.270 Religious Heritage of the West /A (3)
- Twelve semester hours in religion (or nine semester hours in religion and three semester hours in philosophy) at the 300 level or above.

M.A. in Philosophy

Admission to the Program

The candidate must meet the minimum university requirements for admission to graduate study as set forth elsewhere in this publication. Two letters of recommendation are required. The Graduate Record Examination (GRE) General is recommended.

Degree and Major Requirements

- At least thirty semester hours of approved graduate work, including six hours of 60.797 Master's Thesis Seminar.
- Advancement to candidacy after successful completion of twelve semester hours of graduate work.
- Proficiency examination in French or German as a tool of research.
- One eight-hour examination in philosophy (administered on two days, four hours each day). Examination fields 60.01A and 60.01B.
- Thesis and oral defense of thesis.

Note Also: Upon application, students satisfactorily completing all requirements for the Ph.D. in Philosophy except the dissertation will receive a Master of Arts degree with a major in Philosophy.

M.A. in the History of Religions: Hindu Tradition

Admission to the Program

Suitable background in religious or South Asian studies. Applications are made directly to the Department of Philosophy and Religion. GRE General recommended. Two letters of recommendation required.

Degree and Major Requirements

- A total of thirty semester hours of approved graduate work, including six semester hours of master's thesis seminar.
- Advancement to candidacy after successful completion of twelve semester hours of graduate work.
- An examination in either French or German (another modern language may be substituted with approval).
- Two semesters of either Sanskrit or Hindi. (When appropriate, this requirement may be waived by examination.)
- Comprehensive examination with the following three components, given during the last semester of course work: methods in the study of religions; the Hindu tradition; and thematic comparisons between the Hindu tradition and at least one other tradition of the student's choice.
- Thesis on one particular aspect of the Hindu tradition, submitted during the final semester of course work.

Course Requirements

Thirty semester hours of approved graduate-level course work at the member universities of the Consortium of Universities of the Washington Metropolitan Area, including:

- George Washington University course Rel. 158

- Georgetown University course 095-108
- Catholic University of America course 970
- The American University course 61.694 Graduate Seminar in Religious Studies (3–12)
- One course in methodology.
- Six semester hours of Master's Thesis Seminar at the student's home university (for American University students this is 61.797).

Physical Education

Chair Robert H. Frailey

Full-Time Faculty

Professor R.H. Frailey, D.S. Geiser (Emeritus), V.E. Hawke (Emerita), J.W. Hubbell (Emerita), R.C. Karch

Associate Professor B.G. Coward, J.D. Frady, R.E. McFeeter, L.G. Nyce, B.J. Reimann

Assistant Professor P. Mehlert, J.R. Rogers

The Department of Physical Education provides opportunities for students to learn about and experience aspects of fitness, movement, and sport that last through a lifetime of physical activity. The diversity of physical education courses emphasizes the development of physical skills and the acquisition of cognitive understanding. Students are urged to participate in these courses early in their college years so that they might acquire the skills and knowledge to reduce the pressure of a busy, stress-filled schedule.

To achieve these goals, students need to attain the levels of fitness and skills that are the requisites for sports activities. In addition to psychomotor skill development, students must also acquire an understanding of sports and an appreciation of physical activity.

Skill development in sports that can be enjoyed throughout life should be part of the education of the American University student. Students are encouraged to explore the interdisciplinary relationship between courses of this department and those of other schools and departments of the university.

M.S. in Health/Fitness Management

Admission to the Program

The program is offered jointly by the College of Arts and Sciences and the Kogod College of Business Administration. The program is open to students with varied undergraduate backgrounds and has few science-related academic prerequisites. The academic record and experience of each applicant will be thoroughly reviewed by the program director. Minimum requirements for admission include: (1) bachelor's degree; (2) college transcripts (a grade-point average of 3.00 on a 4.00 scale in the last sixty semester hours); (3) two letters of recommendation; (4) Graduate Management Aptitude Test or Graduate Record Examination; and (5) a personal interview. Program prerequisites: Human Anatomy and Physiology and Exercise Physiology. Applicants who have not satisfied these prerequisites may be admitted to the program on a provisional basis until the prerequisites are satisfied.

Degree and Major Requirements

- A total of forty-four semester hours of graduate work.
- One written and one oral comprehensive examination.

Course Requirements

Science Curriculum

- 15.506 Human Biochemistry (3)
- 49.610 Advanced Exercise Physiology and Testing I (3)
- 49.615 Advanced Exercise Physiology and Testing II (3)
- 57.570 Behavioral Medicine (3)
- 46.540 Nutrition for Health/Fitness (3)

Business Curriculum

- 14.603 Accounting Concepts and Applications (3)
- 10.606 Managerial Statistics (3)
- 10.611 Managerial Economics (3)
- 11.601 Marketing Management (3)
- 13.605 Financial Management (3)
- 10.755 Management of the Enterprise (3)
- 10.610 Organizational Theory and Behavior (3)

- 49.790 Research Seminar in Health/Fitness Management (3)
- 49.792 In-Service Training Project in Health/Fitness Management (3–6)

Special Opportunities and Facilities

Many opportunities are available for students to become involved in the university's ongoing Health/Fitness programs. Additionally, the branches, agencies, and offices of the federal government and the many centers and organizations dealing with health, education, business, and physical fitness provide opportunities for rounding out a classroom education.

Physics

Chair Richard B. Kay

Full-Time Faculty

Professor R. Berendzen, E.R. Callen, M. Harrison (Emeritus), R.B. Kay, H.R. Reiss, R.A. Segnan, R.V. Waterhouse (Emeritus), J.A. White

Assistant Professor G. Gibian

Research Faculty

Research Professor R. Arnold, Z. Bay, J. Goldman

Research Associate Professor S. Rock

Physics and Physics Programs

Physics is the study of the basic properties of the physical universe: gravitation, electricity and magnetism, atomic and nuclear structure, and aggregate matter. The department supports three areas of research concentration: high energy nuclear physics in an outstanding collaborative program with the Stanford Linear Accelerator Center (SLAC); condensed matter physics with specializations in solid state magnetism and the study of phase transitions in systems near their critical points; and intense field/laser studies on the interaction of intense electromagnetic radiation with matter. All students are encouraged to participate in research.

There are two tracks in the B.S. major. The applied track has all of the pre-engineering components, including seventeen hours of electronics. It prepares students for many technical positions which currently exist in industry and government. The graduate preparation track is for students who plan to enter M.S. and Ph.D. programs. It includes more high-level courses in quantum physics, mechanics, and electricity and magnetism.

The department also offers a B.S. degree in Audio Technology. (See Audio Technology in this publication.)

Experimental and theoretical research projects are available for graduate students. The M.S. degree qualifies students for many research and development positions, including those at research laboratories. The Ph.D. degree is offered for students who have performed exceptionally in their M.S. work and who have obtained the sponsorship of a faculty member who will be the student's major professor. The department actively collaborates with many of the Washington-area research laboratories; in appropriate cases, dissertation and thesis research may be performed at these laboratories.

B.S. in Physics

Admission to the Program

The department counsels freshmen and transfer students. Formal admission to the program requires a 2.00 grade-point average and approval of the department undergraduate adviser.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of fifty-eight semester hours with grades of C or better.

Course Requirements

- 51.220 University Physics I /N (3)
- 51.221 University Physics II /N (3)

  51.220 and 51.221 may be waived for students with exceptional high-school preparation.

- 51.222 General Physics Laboratory I (2)
- 51.223 General Physics Laboratory II (2)
- 51.452 Advanced Laboratory (3)
- 51.501 Modern Physics (3)
- 51.502 Classical Mechanics (3)
- 51.503 Electricity and Magnetism (3)
- 15.120 General Chemistry I /N (3)
- 15.121 General Chemistry I Laboratory /N (1)
- 15.130 General Chemistry II /N (3) and
- 15.131 General Chemistry II Laboratory /N (1) (or equivalents)
- 15.410 Physical Chemistry I (3)
- 41.170 Precalculus Mathematics /N (3)
- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.321 Differential Equations (3)

- 40.260 Introduction to Computing /N (4)
  or
  40.280 Introduction to Computer Science I /N (4)

Options

Applied Physics Courses

50.312 Analog Electronics I (3)
50.313 Analog Electronics II (3)
50.322 Analog Electronics Lab I (2)
50.323 Analog Electronics Lab II (2)
50.500 Digital Electronics (4)
50.501 Microprocessors (4)

Graduate Preparation Courses

51.530 Mechanics (3)
51.551 Electromagnetic Waves and Optics (3)
51.570 Introduction to Quantum Mechanics (3)
51.572 Atomic Physics (3)
51.573 Nuclear Particle Physics (3)
51.574 Introduction to Solid State Physics (3)
41.550 Complex Variables for Applications (3)
41.551 Mathematics for Physics (3)

Other Recommendations

09.101 General Biology I /N (4)
09.102 General Biology II /N (4)
40.281 Introduction to Computer Science II /N (3)

Minor in Physics

Requirements

- 51.222 General Physics Laboratory I (2)
- 51.223 General Physics Laboratory II (2)

- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
  or
  41.211 Applied Calculus I /N (4)
  41.212 Applied Calculus II /N (3)

- 51.218 College Physics I /N (3)
  or
  51.220 University Physics I /N (3)

- 51.219 College Physics II /N (3)
  or
  51.221 University Physics II /N (3)

- 51.501 Modern Physics (3)

- 51.502 Classical Mechanics (3)
  or
  51.503 Electricity and Magnetism (3)

M.S. in Physics

Admission to the Program

Approval of the department graduate advisers is required. Two letters of recommendation are required unless the previous degree was earned in the department. The department counsels entering graduate students.

Degree and Major Requirements

- A total of thirty semester hours of approved graduate work.
- Two written comprehensive examinations: 51.001 Mechanics, Thermal and Statistical Physics, Mathematical Physics, and 51.002 Electromagnetism, Quantum Mechanics, Applications.
- Nonthesis option: six semester hours of advanced work approved by the department graduate advisers.

  Thesis option: an approved thesis in conjunction with 51.797 Mater's Thesis Seminar.

Course Requirements

- 41.550 Complex Variables for Applications (3)
- 41.551 Mathematics for Physics (3)
- 51.530 Mechanics (3)
- 51.551 Electromagnetic Waves and Optics (3)
- 51.570 Introduction to Quantum Mechanics (3)

- 51.565 Basic Concepts in Statistical Physics (3)
  or
  15.546 Thermodynamics and Statistical Physics (3)

- Two courses from the following:
  51.630 Mechanics I (3)
  51.631 Mechanics II (3)
  51.650 Electromagnetic Theory I (3)
  51.651 Electromagnetic Theory II (3)
  51.670 Quantum Mechanics I (3)
  51.671 Quantum Mechanics II (3)

- Six semester hours to fulfill the thesis or nonthesis option.

Ph.D. in Physics

Admission to the Program

Approval of the department graduate advisers is required. Two letters of recommendation are required unless the previous degree was earned in the department. The department counsels entering graduate students.

Research Concentrations

Nuclear high energy experimental physics, condensed matter physics, and intense field/laser physics.

Degree and Major Requirements

- A total of seventy-two semester hours of approved graduate work.
- Advancement to candidacy after qualifying examination and approval of the dissertation proposal by the department graduate advisers.
- Proficiency in a language or computer science or another tool of research approved by the student's dissertation committee.
- The M.S. comprehensive examinations, 51.001 and 51.002, both passed with distinction.
- Four approved comprehensive examinations: 51.005, 51.006, 51.007, and 51.008 (oral) covering the subject area of the dissertation and material relevant to the area of research. The examinations 51.001 and 51.002 may be substituted for 51.005.
- Dissertation prepared in consultation with the student's dissertation committee and approved by that committee and the department graduate advisers.
- Specialized seminars in the area of research concentration are coordinated with the student's major professor.

Course Requirements

- 51.630 Mechanics I (3)

- 51.631 Mechanics II (3)
- 51.650 Electromagnetic Theory I (3)
- 51.651 Electromagnetic Theory II (3)
- 51.670 Quantum Mechanics I (3)
- 51.671 Quantum Mechanics II (3)
- 51.799 Doctoral Dissertation Seminar (12)

Pre-engineering

Pre-engineering Advisory Council Valora Washington (Associate Dean for Undergraduate Affairs), and Chairs of Chemistry, Physics, and Biology

For the many students studying in the fields of mathematics, physics, chemistry, biology, and distributed sciences who are potential engineers, The American University has established cooperative five-year programs with the School of Engineering and Applied Science, Washington University, St. Louis, Missouri, and with the College of Engineering, University of Maryland. Students spend three years on The American University campus concentrating in one of the major fields in the College of Arts and Sciences. Students must work very closely with a faculty adviser and seek counsel from the Department of Mathematics, Statistics, and Computer Science, the science departments, or the dean's office. If the designated official at The American University recommends the student, there is guaranteed admission to the engineering program after the junior year. After a satisfactory fourth year at the cooperating engineering school, the bachelor's degree is awarded by The American University. The fifth year provides for the completion of a second major in one of the engineering fields.

Undergraduate Cooperative Engineering Program with Washington University

A student interested in the profession of engineering is advised to major in either mathematics or science. After a satisfactory fourth year at Washington University, a student receives a bachelor's degree with a major in the previously declared field from The American University.

Admission to the Program

The Sever Institute of Technology of the School of Engineering and Applied Science at Washington University will consider only students with a minimum average of B and the recommendation of the designated official at The American University.

Course Requirements

- English: evidence of ability to communicate effectively in written form as demonstrated by course work, acceptable examination scores, or college certification of proficiency.
- Calculus sequence through multivariate calculus plus differential equations.
- Physics: a two-course sequence employing calculus and including laboratory.
- Chemistry: a two-course sequence including laboratory.
- One course in computer programming (may be deferred for chemical engineering).
- At least eighteen semester hours in humanities and social science.

  At least eight of the eighteen semester hours must be in one department, including one area of concentration at the junior/senior level. No more than nine semester hours of the performing arts or skill courses may count toward the required eighteen semester hours.
- For chemical engineering: two-course sequence in organic chemistry.

Recommendations

A student interested in pre-engineering should consult the associate dean for undergraduate affairs in the College of Arts and Sciences for counseling and assignment to an appropriate adviser no later than the end of the freshman year. Students must complete basic courses satisfactorily during the three years of study in order to be able to complete the requirements for an engineering degree in five years.

Special Opportunities

A student may also plan such combined degree programs as B.A.-B.S.-M.S. and B.A.-B.S.-M.B.A. by allowing six years for such programs.

Note: Courses with grades below C will not transfer to Washington University. All curricula are recognized and accredited by the Engineers Council for Professional Development. Students wishing to explore their interests in pre-engineering may attend a fourteen-day intensive session offered between the fall and spring semesters.

Undergraduate Dual Program with the University of Maryland

A student interested in the profession of engineering is advised to major in mathematics or science. After a satisfactory fourth year at the University of Maryland, a student receives a bachelor's degree with a major in the previously declared field from The American University.

Admission to the Program

Admission to the College of Engineering of the University of Maryland is guaranteed to the dual-degree student who (1) has completed the recommended dual-degree program at The American University with a cumulative grade-point average of 2.00 or better on a 4.00 scale and (2) is recommended by the designated official at The American University.

Course Requirements

- One year of general chemistry with laboratory.

- Two or three years of mathematics, including calculus and differential equations.
- Two years of physics, including a year of general physics with laboratory and more in-depth study in mechanics and in electromagnetism or thermodynamics.
- One course in computer programming.
- Two courses in English composition or equivalents.
- Five courses in humanities and social sciences.
- For chemical engineering: two-course sequence in organic chemistry.

Recommendations

A student interested in pre-engineering should consult the associate dean for undergraduate affairs in the College of Arts and Sciences for counseling and assignment to an appropriate adviser no later than the end of the freshman year. Students must complete all basic requirements satisfactorily during the first three years of study in order to be able to complete the requirements for an engineering degree in five years.

Note: A student who enters the University of Maryland in the dual-degree program will have all credit that is applicable to The American University degree transferred to the College of Engineering. A student at The American University is advised that thirty semester hours with grades of C or better from the College of Engineering, University of Maryland, will be acceptable for transfer to fulfill The American University undergraduate requirements.

Prelaw

Prelaw Advising Prelaw advising is available from the prelaw advisers: Carl Cook in the College of Arts and Sciences, Arthur Harris in the Kogod College of Business Administration, Athena Smith in the School of Government and Public Administration, and Jean Kinnahan in the School of Justice.

It is important that the prelaw student understand law schools' educational philosophy. As the Law School Admission Bulletin states: "Any course, regardless of field, that helps you develop clear and systematic thinking, command of the English language, and a broad understanding of our society constitutes sound preparation for the study of law. Thus, law schools do not recommend specific undergraduate majors for prelaw students." The prelaw student should also realize that admission to law school is very selective. Students contemplating careers in law should plan their undergrduate study to participate in a solid academic curriculum and acquire a background of outstanding extracurricular activities.

Undergraduate Program in Prelaw

Majors

The student aspiring to the profession of law may select any major. The university does not offer a prescribed prelaw major.

Admission to the Program

The student interested in prelaw preparation follows the normal procedure for declaring a major in one of the schools or departments or in gaining approval for an interdisciplinary program of study.

Requirements

By the end of the sophomore year, the prelaw student chooses an academic major. The student must satisfy the requirements, related fields, and tool subjects in this major as specified by the department or as approved in a valid interdisciplinary program. Whatever the choice of major, the prelaw student's major program should be supported by a broad distribution of courses in mathematics, natural sciences, social sciences, and the humanities.

Recommendations

Courses recommended by law schools include literature and upper-level writing courses, history, political science, accounting, economics, mathematics, and other courses demanding analytical thinking or verbal proficiency.

The Law School Admission Test (LSAT) is required of every applicant to law school. It is strongly recommended that this test be taken in June before the senior year. With this test date, students can get an idea of their prospects and possibly retake the examination in September or December or both, or, if necessary, make alternative plans. Students apply directly to the Law School Admissions Service (LSAS) to take the test on The American University campus and should register six weeks before the test date. The Law School Admission Test applications are available in the offices of the prelaw advisers of the schools mentioned above. The *Pre-Law Handbook* is helpful in describing law schools and their requirements. This handbook is available in the offices of the prelaw advisers and in The American University campus store. Also available from the prelaw advisers is the *Pre-Law Guide: Questions and Answers* which discusses the way in which one can prepare oneself for law school, the mechanics of applying, and what one can expect once one is there.

Only students with a very high cumulative grade-point average and a high LSAT score should consider law.

Honor Society

Qualified sophomores, juniors, and seniors may apply for membership in the University's prelaw honor society, Sigma Phi Omega. The prelaw honor society sponsors various activities related to the law-school application process, as well as the law-school experience, throughout the academic year. Consult the School of Justice for an application and additional information.

Premedicine, Predentistry, and Preveterinary

Coordinator, Preprofessional Health Sciences Program Stephen Grebe (Biology) with Valora Washington, Associate Dean for Undergraduate Affairs

The preprofessional health sciences program provides the fundamental background for both science and nonscience students pursuing careers as medical professionals: for example, physicians, dentists, veterinarians, and other health-care specialists. This program includes not only academic course work but also extracurricular activities through the Honor Society of Alpha Epsilon Delta, which provides opportunities for students to associate with doctors, dentists, veterinarians, psychiatrists, and other health-care professionals.

The program provides guidance to students by preparing them for standardized tests such as the MCAT. It includes seminar and lecture series, structured assistance in the application and screening process for professional schools, and overall guidance in curriculum planning. The American University has an outstanding record of acceptance of its students into professional schools. Approximately 70% of American University applicants are accepted into medical colleges of their choice.

Psychology

Chair Carol S. Weissbrod

Full-Time Faculty

Professor A.L. Berman, J.J. Boren, J.J. Gray, A. Leventhal, B.W. McCarthy, E.M. McGinnies, A.L. Riley, M. Rioch (Emeritus), A.M. Silberberg, B.M. Slotnick, S.J. Weiss

Associate Professor D.L. Chambless, S.R. Parker, C.S. Weissbrod, B.T. Yates

Research Faculty

Research Professor J. Erwin

Research Associate Professor F.R. Warren-Boulton

The undergraduate program in the Department of Psychology offers the student an opportunity to appreciate psychology's diversity and its applications. Courses are offered in clinical, social, personality, developmental, and experimental psychology. Advanced special topics courses in these and related areas are often available. Students may design programs that approach psychology as a social science, a natural science, or a combination of the two. Advanced students have the opportunity to become actively involved in both psychological research and paraprofessional counseling. During the junior and senior years, majors are encouraged to take small, specialized seminars and engage in supervised independent study. Undergraduate majors also have opportunities for internship experience with community mental health agencies and may participate in ongoing research within the department. The program is sufficiently flexible and broad to satisfy career goals and provide a solid background for graduate study.

Affiliations

Washington, D.C., Veterans Administration Hospital; Baltimore Veterans Administration Hospital; St. Elizabeth's Hospital; Community Psychiatric Center (Bethesda); Georgetown University Hospital (Department of Pediatrics); Kennedy Institute (Baltimore); Children's Hospital (Washington, D.C.); Institute for Behavioral Resources; George Washington University Medical Center; North Center (Washington, D.C.); Johns Hopkins University School of Medicine; Veterans Administration Medical Center (Perry Point, MD); Alexandria Community Mental Health Center; Woodburn Center for Community Mental Health; Eastern Virginia Medical School, Department of Psychiatry (Norfolk, VA).

B.A. in Psychology

Admission to the Program

Students must apply to, and be approved by, the department for formal admission to the major.

Tracks

The Psychology Department offers two tracks or programs through which a student can obtain a degree in Psychology: General Track or Career Track. Both of these tracks have course requirements and suggested electives. Students decide which track to follow in consultation with their faculty advisers. The career track is usually encouraged for students planning to go on to graduate or professional school.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of thirty-seven semester hours with grades of C or better.

Course Requirements

General Track

- 57.100 Introductory Survey of Psychology /N, S (3)

- 42.202 Basic Statistics /N (4)

- Six semester hours from the following natural sciences psychology courses:
  - 57.110 Behavior Principles (3)
  - 57.303 Perception and Judgment /N (3)
  - 57.313 Biological Bases of Behavior /N (3)
  - 57.360 The Evolution of Behavior /N (3)
  - 57.370 Learning and Behavior /N (3)

- Six semester hours from the following social sciences psychology courses:
  - 57.210 Self-Management /S (3)
  - 57.250 Child Psychology /S (3)
  - 57.330 Theories of Personality /S (3)
  - 57.340 Social Psychology /S (3)
  - 57.350 Abnormal Psychology /S (3)
  - 57.430 Human Sexual Behavior (3)
  - 57.470 Introduction to Clinical Psychology (3)

  Upper-level undergraduate social sciences psychology courses may also be taken to satisfy the requirements in this division. These courses include 57.502, 57.514, 57.520, 57.525, 57.551, 57.560, and 57.570.

- Eighteen additional hours in psychology.

Career Track

- 57.100 Introductory Survey of Psychology /N, S (3)
- 42.202 Basic Statistics /N (4)
- 57.480 Experimental Psychology (4)

- Nine semester hours including six semester hours below the 500 level and three hours at the 500 level from the following natural sciences psychology courses:
  - 57.110 Behavior Principles (3)
  - 57.303 Perception and Judgment /N (3)
  - 57.313 Biological Bases of Behavior /N (3)
  - 57.360 The Evolution of Behavior /N (3)
  - 57.370 Learning and Behavior /N (3)
  - 57.501 Physiological Psychology (3)
  - 57.503 Sensation and Perception (3)
  - 57.513 Psychopharmacology: The Effects of Drugs on Behavior (3)
  - 57.530 Conditioning and Learning (3)
  - 57.550 Psychological Research I (3)

- Nine semester hours including six hours below the 500 level and three hours at the 500 level from the following social sciences psychology courses:
  - 57.210 Self-Management /S (3)
  - 57.250 Child Psychology /S (3)
  - 57.307 Crisis Intervention and Telephone Counseling (4)
  - 57.330 Theories of Personality /S (3)
  - 57.340 Social Psychology /S (3)
  - 57.350 Abnormal Psychology /S (3)
  - 57.430 Human Sexual Behavior (3)
  - 57.502 History and Systems of Psychology (3)
  - 57.520 The Psychology of Suicide and Life-Threatening Behavior (3)
  - 57.560 Advanced Child Psychology (3)

- Eight additional hours in psychology.

Recommendations

Students considering graduate studies in psychology are advised to pursue the career program. They should also include in their course of study additional courses in the natural or social sciences.

Honors

A total of thirty-nine semester hours.

Qualified students may participate in the psychology departmental honors program. The specific requirements of the program are:

57.100 Introductory Survey of Psychology /N, S (3)

Six semester hours (two courses) from the lower level (400 and below) psychology natural sciences offerings.

Six semester hours (two courses) from the lower level (400 and below) psychology social sciences offerings.

42.202 Basic Statistics /N (4)

57.480 Experimental Psychology (4)

Three semester hours (one course) from the upper level (500 and above) psychology natural sciences offerings.

Three semester hours (one course) from the upper level (500 and above) psychology social sciences offerings.

Microcomputer Applications (3) (40.260, 40.280, or direct computer experience satisfy this requirement.)

Six semester hours (two courses) from the following:

57.490 Independent Research (3)

57.525 Clinical Research Practica (3)

57.491 Internship (3)

57.498 Honors Thesis (3) (must be completed to receive honors in Psychology)

Students are encouraged to apply for the Honors Program at the beginning of their junior year. To be accepted into the program, students must have an overall grade-point average of 3.0 or better and at least a 3.5 in psychology. These grade-point averages must be maintained to continue in the Honors Program. Consult adviser.

B.S. in Psychology

As in the B.A. in Psychology, B.S. students are required to take a total of thirty-seven semester hours in major requirements, (thirty-three in psychology and four in basic statistics). In addition, the following must be taken:

- At least sixty semester hours in the following related fields: 03.xxx anthropology, 09.xxx biology, 15.xxx chemistry, 40.xxx computer science, 19.xxx economics, 36.xxx and 37.xxx language and foreign studies, 41.xxx mathematics, 51.xxx physics, 60.xxx philosophy, 65.xxx sociology, and 42.xxx statistics.

  or

  at least sixty semester hours in psychology (including the thirty-seven semester hours as required for the B.A.)

Minor in Psychology

- A total of eighteen semester hours (six courses) in Psychology with grades of C or better.
- 57.100 Introductory Survey of Psychology /N, S (3)
- Three semester hours (one course) from the psychology natural sciences division (see B.A. major requirements for specific offerings).
- Three semester hours (one course) from the psychology social sciences division (see B.A. major requirements for specific offerings).
- Nine additional semester hours (three courses) in psychology.

B.A./M.A. in General Psychology

Admission to the Program

This program enables full-time students to complete the B.A. and M.A. in Psychology in five years. Students should apply for this program no later than the first semester of the senior year and no earlier than the first semester of the junior year. Students must have a 3.00 grade-point average in psychology and statistics courses and must have completed at least one-half of the semester hours required for the B.A. in Psychology. The undergraduate statistics course required for the B.A. must be completed before application to the M.A. program in General Psychology. It is recommended, but not required, that students take the career track as undergraduates. Students must submit a completed graduate application form (through the Office of Admissions), Graduate Record Examination (GRE) scores for the General (Verbal, Quantitative, and Analytic) and Advanced Psychology sections, two letters of recommendation, and copies of all college transcripts.

Degree and Major Requirements

- All requirements for the B.A. degree with a major in psychology.
- All requirements for the M.A. degree with a major in general psychology.

Students may apply two 500-level courses toward meeting the requirements of both degrees.

M.A. in General Psychology

Admission to the Program

Applicants must submit GRE scores on the General and Advanced Psychology examinations, submit two letters of recommendation, and have at least a 3.00 grade-point average. Three undergraduate psychology courses and one undergraduate statistics course are also required before application.

Completion of the degree does not necessarily lead to admission to the Ph.D. program; students who wish to be considered for the Ph.D. program must reapply. Applicants with a B.A. who wish to obtain a Ph.D. in Psychology from The American University should apply directly to the Ph.D. program. If they do not have an M.A., they will earn one as part of the Ph.D. program. See the following description of the Ph.D. program and its clinical and experimental/social tracks for more information.

Up to six semester hours of graduate course work in psychology from another university or up to twelve semester hours of graduate course credit taken at The American University may be transferred. These transfers of credit are subject to approval by the director of the M.A. program.

Tracks

General, Personality/Social, and Experimental/Biological.

Degree and Major Requirements

- A total of thirty-three semester hours of approved graduate work.
- One written comprehensive examination (offered every fall, spring, and summer semester).
- Thesis option: The master's thesis involves an original research project. Students must prepare a thesis proposal, collect and analyze data, submit a written thesis, and give an oral defense.

  Nonthesis option (General Psychology track only): six semester hours from the following:
  57.525 Clinical Research Practica (3)
  57.550 Psychological Research I (3)
  57.601 Psychological Research II (3)
  57.698 Directed Research (3–6)

Course Requirements

Personality/Social Psychology

- Four courses from the following:
  57.514 Industrial/Organizational Psychology (3)
  57.520 Psychology of Suicide and Life-Threatening Behavior (3)
  57.551 Psychopathology (3)
  57.560 Advanced Child Psychology (3)
  57.570 Behavioral Medicine (3)
  57.5xx advanced topics courses such as Psychology of Sex Differences or a graduate seminar in clinical, personality, or social psychology.
  57.640 Advanced Social Psychology (3)
  57.660 Advanced Theories of Personality (3)
- Two courses from the following:
  57.501 Physiological Psychology (3)
  57.503 Sensation and Perception (3)
  57.513 Psychopharmacology: The Effects of Drugs on Behavior (3)
  57.530 Conditioning and Learning (3)
  57.670 Learning and Motivation (3)
  one graduate seminar in experimental psychology or neuroscience.
- One graduate statistics course.

- 57.550 Psychological Research I (3)
  or
  57.601 Psychological Research II (3)
- One graduate elective.
- 57.795 Master's Thesis Independent Study (6)
  or
  57.797 Master's Thesis Seminar (6)

Experimental/Biological Psychology

- Four courses from the following:
  57.501 Physiological Psychology (3)
  57.503 Sensation and Perception (3)
  57.513 Psychopharmacology: The Effects of Drugs on Behavior (3)
  57.515 Biopsychology Laboratory Methods (3)
  57.530 Conditioning and Learning (3)
  57.670 Learning and Motivation (3)
  one graduate neuroscience seminar
  one Independent Study (57.690) in a recognized area of experimental/biological psychology.
- Two courses from the following:
  57.514 Industrial/Organizational Psychology (3)
  57.520 Psychology of Suicide and Life-Threatening Behavior (3)
  57.551 Psychopathology (3)
  57.560 Advanced Child Psychology (3)
  57.570 Behavioral Medicine (3)
  57.5xx advanced topics courses such as Psychology of Sex Differences or a graduate seminar in clinical, personality, or social psychology.
  57.640 Advanced Social Psychology (3)
  57.660 Advanced Theories of Personality (3)
- One graduate statistics course.
- 57.550 Psychological Research I (3)
  or
  57.601 Psychological Research II (3)

General Psychology

- Two courses from the following:
  57.514 Industrial/Organizational Psychology (3)
  57.520 Psychology of Suicide and Life-Threatening Behavior (3)
  57.551 Psychopathology (3)
  57.560 Advanced Child Psychology (3)
  57.570 Behavioral Medicine (3)
  57.5xx advanced topics courses such as Psychology of Sex Differences or a graduate seminar in clinical, personality, or social psychology
  57.640 Advanced Social Psychology (3)
  57.660 Advanced Theories of Personality (3)
- Two courses from the following:
  57.501 Physiological Psychology (3)
  57.503 Sensation and Perception (3)
  57.513 Psychopharmacology: The Effects of Drugs on Behavior (3)
  57.530 Conditioning and Learning (3)
  57.670 Learning and Motivation (3)
  one graduate seminar in experimental psychology or neuroscience
- One graduate statistics course.
- Six semester hours from the following:
  57.525 Clinical Research Practica (3–4)
  57.550 Psychological Research I (3)
  57.601 Psychological Research II (3)
  57.698 Directed Research (3–6)
- Four graduate elective courses totaling twelve semester hours, of which at least six semester hours are from the Department of Psychology.

Ph.D. in Psychology

Students who have been admitted to the doctoral program in psychology but do not have an M.A. in psychology that has been accepted by the department must first complete special M.A. degree requirements. The master's degree is awarded on completion of the M.A. course requirements and successful defense of a research thesis. The M.A. program described in the preceding section is available to students not admitted to the Ph.D. program.

Admission to the Program

Admission to the program is based on Graduate Record Examination scores (General and Advanced Psychology tests), previous academic performance, and letters of recommendation. Those applicants judged to be among the top thirty or thirty-five are invited for an interview, and the final selection is based on all information, including the interview. Students are admitted for full-time study only.

Tracks

Experimental, Clinical, and Social Psychology.

M.A. Degree and Major Requirements

- A total of thirty semester hours of approved graduate work.
- Completion of one comprehensive examination. The nature of the examination is arranged between the student and the student's adviser and may be written or oral.
- Master's thesis: an original research project designed and carried out by the student demonstrating competency in research and an understanding of the substantive issues in the specific area encompassed by the thesis. Oral defense.
- Advancement to candidacy after satisfactory performance in course work (at least a B average must be maintained with no more than one C), completion of thesis research, satisfactory performance in an oral examination concerning the content of the thesis, and completion of one comprehensive examination.

Course Requirements

- One course in statistics.
- 57.550 Psychological Research I (3)
  or

57.601 Psychological Research II (3)

- Six semester hours to fulfill the thesis requirement.

Note Also: Students may receive credit for graduate-level course work taken outside the Department of Psychology. Courses relevant to the student's special area of study may be taken through the Consortium of Universities of the Washington Metropolitan Area.

Ph.D. Degree and Major Requirements

Students who are admitted without an approved M.A. must meet the M.A. requirements described above before working on Ph.D. degree requirements.

- A total of seventy-two semester hours of approved graduate work, including fifty-four graduate-level semester hours, six hours of thesis research, and twelve hours of dissertation research.
- Two tools of research are required but do not result in course credit toward the degree.

  The tool requirement is flexible and can be met in a variety of ways: (1) demonstration of a knowledge of a language relevant to the student's career; (2) demonstration of mastery in a computer program language; (3) satisfactory completion of one skill-oriented graduate course offered by another department at The American University or by nonpsychology departments of the Consortium universities; (4) service in one clinical institute which is approximately equal in time and difficulty to a full course; and (5) supervised tool training in other settings when approved by the student's adviser and the department chair.
- Four comprehensive examinations outlined by advisers or other faculty members. They are designed to be more comprehensive and professional than conventional comprehensive examinations. They involve students in the kinds of activities they will later engage in as professional psychologists. At least one of the four comprehensives must be oral and at least two must be written.
- Dissertation: A written proposal for the dissertation is to be submitted to the dissertation committee by the middle of the second semester of the third year. The original proposal, or a revision thereof, should meet the requirements of the committee by the end of the second semester. This allows adequate time for completion of a quality dissertation even if initial experimentation turns out to be exploratory in nature.

Course Requirements

Clinical Track

- 57.601 Psychological Research II (3)
- 57.692 Cooperative Education Field Experience (3–6)
- Twelve hours that are clearly outside the area of clinical psychology.

Social Track

- 57.550 Psychological Research I (3)
- Six hours in statistics.
- Six hours which are clearly outside the area of social psychology.

Experimental Track

- 57.550 Psychological Research I (3)
- Twelve hours that are clearly outside the area of experimental psychology.

Special Opportunities

In the fourth year, the clinical student will serve an internship in an appropriate setting outside the university. Special research opportunities in laboratories at the National Institutes of Health and related research institutions are available for students in social and experimental psychology.

Sociology

Chair Robert L. David

Full-Time Faculty

Professor A. Motz Blum (Emerita), M. Cantor, E. Chow, B. Kaplan, F. Lorimer (Emeritus), G. Mueller K. Petersen, J. Scott, J. Siegenthaler, A. Van der Slice (Emeritus)

Associate Professor R. David, S. Farsoun, K. Kusterer

Sociology explores how individuals, through their collective actions, create and change patterns of social relations and how, in turn, these social relations influence people's lives. Sociologists focus on many levels of analysis from societies as component parts of wider systems to individuals as participants in two-person groups. They also study a wide variety of themes, from family life to political change to the social organization of cities. This quest for knowledge is both an end in itself and a pathway for informed social changes.

The graduate program in the department emphasizes sociological theory, social research, macrosociology, social psychology, social stratification, and the sociology of work, occupations, organizations, and justice. The undergraduate program requires majors to pursue core sequences in sociological theory and social research and offers students an opportunity to explore a wide range of perspectives and substantive interests.

Consult the Department of Sociology for detailed descriptions of undergraduate and graduate degree programs.

B.A. in Sociology

Admission to the Program

Students must be approved by the department for formal admission to the major.

University Requirements

- A total of 120 semester hours.

- Six semester hours of required English.
- Twenty-four hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of forty semester hours with grades of C or better.

Course Requirements

- 65.200 Introduction to Sociology /S (3)
- 65.410 Classical Sociological Theory (3)
- 65.411 Contemporary Sociological Theory (3)
- 65.320 Introduction to Social Research (3)
- 42.202 Basic Statistics /N (4)
- Three hours of advanced research methods (65.42x).
- Fifteen semester hours of electives in sociology, including twelve hours at the 300 level or above and three hours at the 500 level.
- Six semester hours of electives beyond the introductory level selected from one of the following areas: anthropology, computer science, economics, history, statistics, philosophy, political science, or psychology. Electives should be selected in consultation with a departmental adviser.

Recommendations

(1) All majors: Complete 65.200 and at least one 300-level elective in sociology before the junior year. Complete 65.320, 65.410, 65.411, and 65.42x during junior year. Choose sociology electives from at least two of the following areas: macrosociology (65.x3x), social psychology (65.x4x), social stratification (65.x5x), work, occupations, and organizations (65.x6x), and other (65.x8x). (2) Majors interested in graduate study in sociology or related fields: At least one course in statistics. Additional sociology electives from several areas. (3) Majors interested in careers in social research after completing the bachelor's degree: Select 65.491 as sociology elective after completing 65.320. Select statistics or computer science as a related field. (4) Majors interested in careers in social work: Select 65.491 as sociology elective in the junior or senior year. Take at least two courses in social psychology (65.x4x) as sociology electives. Select psychology as a related field.

Special Opportunities

Undergraduate assistantships, carrying a stipend of $300 and a work commitment of seven hours per week, are awarded competitively each semester to declared majors with at least a 3.00 overall grade-point average who have completed eleven or more semester hours of course work in sociology. Consult the department for details.

Internships: The department offers internship opportunities for majors and minors, in the fields of social service, social change, and social research.

Cooperative Education: The department encourages participation in the co-op program and makes placements each semester in social change, research, and social work agencies. A special supervising sociology co-op program is conducted each year for residence hall advisers.

Double Majors: Because the department requires only ten courses in sociology and one in statistics, a student frequently can work out a double or joint major with other fields such as business administration, communication, economics, history, international studies, political science, and psychology. Details can be worked out with department faculty.

Minor in Sociology

Requirements

- 65.200 Introduction to Sociology /S (3)
- 65.320 Introduction to Social Research (3)
- 65.410 Classical Sociological Theory (3)
- An advanced course in theory (.411) or methods (.42x).
- Three courses at the 300 level or above in sociology.

M.A. in Sociology

Admission to the Program

Admission to the program is at the discretion of the department's Graduate Committee. Admission in full standing requires a 3.00 average (on a 4.00 scale) in the undergraduate major, at least twelve semester hours of approved sociology courses (undergraduate or graduate) with a grade of B or better, and letters of recommendation from two persons able to evaluate the applicant's potential for graduate study in sociology. Provisional admission may be extended in certain cases where these standards are not fully met. The Graduate Record Examination is recommended but not required.

The M.A. program is a sequence designed for students beginning their graduate program in the fall. M.A. candidates accepted for spring admission may have special problems that they should resolve with the department before they begin the course work.

Degree and Major Requirements

- A total of thirty semester hours of approved graduate work.
- Statistics tool of research examination designated by the Department of Sociology, or graduate-level statistics course with a B or better grade (three semester hours) approved by the department.
- Two comprehensive examinations, 65.020 Methods of Social Research and 65.010 Sociological Theory. Full-time students must take the examinations in Sociological Theory and Methods of Social Research in August before beginning their second year in the degree program. Part-time students must take one of the two examinations in August before beginning their second year in the degree program and the other in August before beginning their third year of study.
- Research requirement: The first half may be satisfied with completion of advanced seminar in research meth-

ods, an advanced seminar in the student's field of concentration, or an independent study course in the field of concentration. To satisfy the second half of the research requirement, the student must enroll in 65.795, Master's Research: Independent Study in Sociology under the guidance of a professor of his or her choice and complete a substantial research report on a topic related to the field of concentration.

Course Requirements

- 65.610 History of Sociological Theory (3)
- 65.611 Modern Sociological Theory (3)
- 65.620 Social Research I (3)
- 65.621 Social Research II (3)

- Two courses in one field of concentration selected from the following: macrosociology, social psychology, social stratification, and work, occupations, and organizations.

- Six semester hours of course work to fulfill the research requirement.

Ph.D. in Sociology

Admission to the Program

Admission to the program is at the discretion of the department's Graduate Committee. Admission in full standing requires completion of twelve or more semester hours of approved graduate-level course work in sociology with a grade-point average of better than 3.00 on a 4.00 scale, and letters of recommendation from two persons able to evaluate the applicant's potential for doctoral study in sociology. Provisional admission may be extended in certain cases where these standards are not fully met. Note: The award of an M.A. degree from this department does not automatically qualify a student for acceptance into the doctoral program. The Graduate Record Examination is recommended but not required.

Students who have not completed twelve semester hours of graduate-level course work in sociology, as required, are encouraged to apply to the master's degree program. If admitted to that program, they may later petition the department's Graduate Committee for transfer to the Ph.D. program. This requires completion of the M.A. comprehensive examinations, a grade-point average of better than 3.00 on a 4.00 scale in courses completed as M.A. candidates, and letters of recommendation from two faculty members.

The Ph.D. program is a sequence designed for students beginning their graduate program in the fall. Ph.D. candidates accepted for spring admission may have special problems that they should resolve with the department before they begin course work.

Degree and Major Requirements

- A total of seventy-two hours of approved graduate work.

- Tool of research: proficiency in a language approved by the department and in statistics for social research.

  Consult the department for details on how to demonstrate proficiency in both tool areas.

- Four comprehensive examinations, one in sociological theory, one in methods of social research, and one each in two other fields of concentration is required. At least one of these examinations in the student's field of concentration must be oral.

  Full-time students must take the comprehensive examinations in sociological theory and methods of social research in August before beginning their second year in the degree program. Part-time students must take one of the two examinations in August before beginning their second year in the degree program and the other before beginning their third year of study. A maximum of three attempts on these examinations is permitted to doctoral students: one taken before enrollment in the required sequence (see Course Requirements below), one taken in the first examination period after completion of the required sequence, and one taken in the next examination period.

  Satisfactory performance on the comprehensive examinations in theory and methods qualifies the doctoral candidate to continue in the Ph.D. program.

  The comprehensive examination requirement in theory and methods of social research is waived for students who have completed the M.A. comprehensive examination requirement at The American University in the fall 1976 examination period or thereafter, provided that this requirement was satisfied no more than three years before admission to the Ph.D. program.

- Dissertation and oral examination of the dissertation in which the candidate may be questioned over the general field of the research done. The candidate must have completed all academic requirements for the degree before the oral examination is taken.

  Students entering the Ph.D. program with M.A. degrees earned elsewhere must complete at least thirty semester hours of graduate work in residence at The American University, plus twelve semester hours of dissertation credit.

Course Requirements

- 65.610 History of Sociology Theory (3)
- 65.611 Modern Sociological Theory (3)
- 65.620 Social Research I (3)
- 65.621 Social Research II (3)
- 65.710 Seminar in Sociological Theory (3)
- 65.720 Seminar in Social Research (3)

Full-time students must complete 65.610, 65.611, 65.620, and 65.621 during their first year in the degree program. Part-time students must complete the sequence in either 65.610-65.611 (theory) or 65.620-65.621 (methods) during their first year, and the other sequence during their second year.

The basic sequence requirement in theory or methods may be waived for students who receive a grade of satisfactory for the theory or methods comprehensive examination taken in the August before the semester in which they are required to begin the sequence.

- Two courses in each of two fields of concentration.

  At least one of the doctoral candidate's two fields of concentration must be selected from the following:

Macrosociology (65.x3x); Social Psychology (65.x4x); Social Stratification (65.x5x); Work, Occupations, and Organizations (65.x6x); and Justice (see program description below). Subject to departmental approval, the candidate may offer as one field of concentration a special area not in the listing above (65.080).

Special Opportunities

The department cooperates with Wesley Theological Seminary in offering a Ph.D. in Sociology with specialization in Society and Religion. Applicants for admission must meet the requirements of the university and the Department of Sociology, and be recommended by Wesley Theological Seminary. Consult the Department of Sociology and Wesley Theological Seminary for further information about this program.

Demography as a special field for doctoral candidates: By arrangement with the Department of Demography, Georgetown University, doctoral candidates in sociology at The American University interested in offering demography as one of their two special fields may complete the course and comprehensive examination requirements for that field at Georgetown University. Information on the demography program is available in the Sociology Department office.

Ph.D. in Sociology: Justice

Admission to the Program

Admission to the program in Sociology with a Specialization in Justice is determined jointly by appointed representatives from the Department of Sociology and the School of Justice.

To apply for admission to this program, students must complete twelve or more semester hours of approved graduate-level course work in Sociology with a grade-point average of better than 3.00 on a 4.00 scale, supply letters of recommendation from two persons able to evaluate the applicant's potential for doctoral study, and submit GRE (General) scores.

The Justice faculty reviews all applicants for the Justice specialization and recommends admission to the Department of Sociology, which makes the final decision.

Degree and Major Requirements

- Seventy-two hours of approved graduate work.

  Normally these seventy-two hours consist of sixty hours of course work and twelve hours of directed study on the dissertation. At least twelve hours and no more than thirty hours are taken in the School of Justice.

Course Requirements

- Three courses in sociological theory:
  65.610 History of Sociological Theory (3)
  65.611 Modern Sociological Theory (3)
  65.710 Seminar in Sociological Theory (3)

- Two courses in methods of social research:
  65.620 Social Research I (3)
  65.621 Social Research II (3)

- Two courses in one field of concentration offered by the sociology department: social psychology; work, occupations, and organizations; social stratification; macrosociology.

- At least four courses in the School of Justice, including nine hours in one of the following areas: law and society, court management, law enforcement, corrections, organization and administration, and drug policy; and three hours in a seminar in justice research.

- Electives to be decided individually between the student and the student's adviser.

- Four comprehensive examinations: sociological theory; methods of social research; a field of concentration approved by the Department of Sociology, usually in one of the four areas of concentration (macrosociology; work, occupations, and organizations; social psychology; and stratification); and the candidate's approved area of concentration, administered by the School of Justice. At least one of the two examinations in the fields of concentration must be taken orally; however, it is strongly recommended that the justice comprehensive examination be written. Candidates are permitted to take the examinations in theory and methods no more than three times, one prior to enrollment in the required courses in theory (65.610 and 65.611) and methods (65.620 and 65.621). Students who pass the examinations prior to taking the courses are exempt from the research method and theory course requirements.

- Tools of Research: Before submitting a dissertation, the candidate must demonstrate proficiency in a language approved by both the Department of Sociology and School of Justice. (At this time demonstration of proficiency in a computer program language may be offered in satisfaction of the language tool requirement) and statistics for social research. The statistics tool may be satisfied in a number of ways. (For details, see the Graduate Handbook). One option is six hours of approved statistics courses. These courses, contingent on approval from the program committee, may contribute toward satisfaction of the sixty hours of graduate course-work requirements.

- Every candidate must submit a dissertation proposal for approval by the candidate's dissertation committee, consisting of at least four and no more than five members. The chair of the dissertation committee and one other member are appointed by the School of Justice. Two members are appointed by the Department of Sociology.

- A candidate must submit the completed dissertation to the dissertation committee for approval. Before the degree can be granted, the candidate must take an oral examination in which he or she may be questioned over the general field of research done. Before taking the oral examination, the candidate must have completed all academic requirements.

Statistics

Chair Austin M. Barron

Full-time Faculty

Professor D.S. Crosby, M.W. Gray, R.H. Holszager, R.W. Jernigan, B.P. Korin, H. Rosenblatt (Emeritus), J.H. Smith (Emeritus)

Associate Professor A.M. Barron, M. Greene, E.B. McCue

Assistant Professor N. Baya'a, C.T. Machlin, S. Parker

Instructor T. Jacob, A. Mokatrin

Research Faculty

Research Professor N. Mantel

The Department of Mathematics, Statistics, and Computer Science combines the resources and knowledge of these related disciplines. This enables the department to offer unusually varied and flexible programs. A student with an interest in the mathematical sciences may choose a program within the department and later change his or her emphasis without a great loss of time because the programs share a common core.

The university's Washington, D.C., location affords the student access to many governmental, cultural, scientific, and historical institutions. These institutions serve as an important research resource. In addition, they are a source of full-time and part-time employment opportunities for students with a firm grounding in the mathematical sciences.

Statistics is concerned with the collection, organization, analysis, interpretation, and presentation of numerical data. The science of statistics is a broad and challenging field. Its breadth can be seen in the way its ideas and techniques have found application in almost every field of study. Statistics has contributed organizational and analytical techniques that provide new insights in fields that range from the physical and life sciences to business, law, history, literature, and the social sciences.

A student majoring in statistics has two tracks available. Those who intend to continue with graduate work in statistics or those with an interest in the theory of statistical methods should follow the sequence for mathematical statistics, which requires a strong background in mathematics. Students wishing an emphasis in the use of statistical techniques should follow the sequence for applied statistics. The latter program is especially appropriate as a secondary emphasis for students who have a strong interest in a field of application.

Undergraduate Honors Program

Departmental honors are available for qualified undergraduates with majors in mathematics, applied mathematics, statistics, and computer science. Requirements include an overall 3.20 grade-point average, a 3.60 grade-point average in the major, certain course requirements, and a research project and honors paper. Interested students should consult the chair of the Department Honors Committee for details.

Special Opportunities

The department employs a number of its undergraduates in its tutoring lab and in the computer labs. The department also offers a limited number of book scholarships to its undergraduates. Applications should be submitted by the end of July preceding the academic year for which aid is requested. Work-study awards are also available. For more information, consult the financial aid office.

B.S. in Statistics

Admission to the Program

Admission to the program in mathematical statistics requires the completion of 41.221, 41.222, and 41.223 with grades of C or better. Admission to the program in applied statistics requires the completion of 41.211 and 41.212, or 41.221 and 41.222, with grades of C or better. A 2.00 cumulative grade-point average is required for admission to either program.

Tracks

Mathematical Statistics or Applied Statistics.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- Mathematical Statistics: a total of forty-seven semester hours with grades of C or better.

  Applied Statistics: a total of fifty-four or fifty-five semester hours with grades of C or better.

Course Requirements

Mathematical Statistics

- 41.221 Calculus I /N (4)
- 41.222 Calculus II /N (4)
- 41.223 Calculus III (4)
- 41.310 Linear Algebra (3)
- 41.501 Probability (3)
- 42.202 Basic Statistics /N (4)
- 42.502 Introduction to Mathematical Statistics (3)
- 42.515 Regression (3)
- 42.516 Design of Experiments (3)
- 40.280 Introduction to Computer Science I /N (4)

- Four additional courses selected from the department, at or above .281 of which two must have the prefix 42 (42.514 cannot be used), as approved by an adviser.

Applied Statistics

- 41.211 Applied Calculus I /N (4) and
- 41.212 Applied Calculus II /N (3)
  or
  41.221 Calculus I /N (4) and
  41.222 Calculus II /N (4)
- 41.310 Linear Algebra (3)
- 41.501 Probability (3)
- 42.202 Basic Statistics /N (4)
- 42.300 Business Statistics /N (3)
- 42.502 Introduction to Mathematical Statistics (3)
- 42.515 Regression (3)
- 42.516 Design of Experiments (3)

- 40.260 Introduction to Computing /N (4)
  or
  40.280 Introduction to Computer Science I /N (4)

- Two additional courses selected from the department as approved by a student's adviser.

- At least five approved courses in a related field, such as anthropology, psychology, sociology, economics, biology, business administration, or computer science. The five courses may be selected from more than one teaching unit.

Minor in Statistics

Requirements

- 42.202 Basic Statistics /N (4)

- 41.221 Calculus I /N (4)
  or
  41.211 Applied Calculus I /N (4)

- Four courses at the 300 level or above from 42.xxx or 41.501 Probability (3).

Students may select either 42.300 or 42.514 for credit toward the minor.

Undergraduate Certificate in Applied Statistics

Admission to the Program

Open to students with a high-school diploma or Graduate Equivalency Diploma (GED).

Course Requirements

- 40.260 Introduction to Computing /N (4)
- 41.211 Applied Calculus I /N (4)
- 41.212 Applied Calculus II /N (3)
- 42.202 Basic Statistics /N (4)

- 42.300 Business Statistics /N (3)
  or
  42.514 Statistical Methods (3)

Five-Year Programs

Admission to Programs

The five-year programs enable qualified undergraduates (students with a grade-point average of 3.2 on a 4.0 scale in major courses) to earn both a bachelor's and a master's degree within five years. There are several options available: the student may choose the same major at the undergraduate and graduate level; the student may enter the master's program in computer science with an undergraduate major in mathematics; or the student may enter the master's program in statistics with an undergraduate major in mathematics. All students should apply by the end of the junior year.

B.S./M.A. in Statistics or Mathematics and Statistics

The qualified student can earn a B.S. with a major in Statistics or Mathematics and earn an M.A. with a major in Statistics.

Additional Admission Requirements

Applicants must have completed 41.501 and 42.502 by the end of the junior year.

Degree and Major Requirements

- A total of seventy-eight hours of course work with an undergraduate major in mathematics; seventy-three semester hours of course work with an undergraduate major in statistics.

- An approved tool of research.

- A written comprehensive examination.

- Thesis option: Six hours of 42.797 Master's Thesis Seminar in Statistics and an oral defense of the thesis.

  Nonthesis option: Three semester hours in 42.690 Independent Study Project in Statistics, requiring an oral and written presentation of the research work. Three additional hours in approved graduate-level independent research, seminars, or research courses.

Course Requirements

- All requirements for the B.S. in Mathematics or B.S. in Statistics, mathematical statistics track.
- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
  (42.530 and 42.531 must be completed by the end of the senior year.)

- Eighteen additional semester hours of approved graduate courses including 42.600 Advanced Mathematical Statistics I (3).

- Six semester hours of course work to fulfill the thesis or nonthesis option.

M.A. in Statistics

Admission to the Program

Students will be expected to have an adequate background in the mathematical sciences. Students entering the M.A. program without the appropriate background will be expected to take certain undergraduate courses as prerequisite work.

Tracks

Mathematical Statistics and Applied Statistics.

Degree and Major Requirements

- At least thirty semester hours of approved graduate work.
- Proficiency in Russian, German, French, or a computer language as a tool of research.
- Written comprehensive examination (administered in two parts). Majors in Mathematical Statistics take 42.001, Statistical Theory and Probability. Majors in Applied Statistics take 42.005, Statistical Theory and Applications.
- Thesis option: Six hours of 42.797 Master's Thesis Seminar in Statistics and an oral defense of the thesis.

  Nonthesis option: Three semester hours in 42.690 Independent Study Project in Statistics or 42.700 Seminar in Statistics, requiring an oral and written presentation of the research work. Three hours in approved graduate-level independent research, seminars, or research courses.

Course Requirements

Mathematical Statistics

- 41.574 Theory of Probability (3)
- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
- 42.584 Introduction to Stochastic Processes (3)
- 42.600 Advanced Mathematical Statistics I (3)
- 42.601 Advanced Mathematical Statistics II (3)
- Two additional courses in mathematics or statistical theory for the thesis option. Three additional courses in mathematics or statistical theory for the nonthesis option.
- A student may take up to twelve semester hours as an independent research project.
- Additional research hours of course work to fulfill thesis or nonthesis option.

Applied Statistics

- 41.574 Theory of Probability (3)
- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
- 42.584 Introduction to Stochastic Processes (3)
- 42.600 Advanced Mathematical Statistics I (3)
- Three additional courses in statistical methods and applications (including approved related courses given in other teaching units).
- A student may take up to twelve semester hours as an independent research project.
- Additional research hours of course work to fulfill the thesis or nonthesis option.

M.S. in Statistical Computing

Admission to the Program

Students will be expected to have adequate background in the mathematical sciences. Specifically, program prerequisites are 40.281 Introduction to Computer Science II and 40.282 Assembly Language (or equivalents) and three semesters of calculus. In addition, previous work in statistics, probability, and matrix algebra is recommended.

Degree and Major Requirements

- Thirty-six semester hours of approved graduate work. Six hours may be waived for students who have had 40.520 and 40.521, or 42.530 and 42.531, or their equivalents.
- Written comphrehensive examination, 42.007 Statistical Computing.
- Six semester hours to fulfill the research requirement.

Course Requirements

- 40.520 Algorithm and Data Structures (3)
- 40.521 Design and Organization of Programming Languages (3)
- 41.560 Numerical Anaylsis: Basic Problems (3)
- 42.524 Data Analysis (3)
- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
- One of the following:
  42.515 Regression (3)
  42.520 Applied Multivariate Analysis (3)
- One of the following:
  42.584 Stochastic Processes (3)
  42.522 Time-Series Analysis (3)
- Two courses selected from:
  40.540 Computer Systems Organization and Programming (3)
  40.568 Artificial Intelligence (3)
  40.570 Data Management Systems (3)
  40.584 Computer Graphics (3)
- Research Requirement:
  42.640 Statistical Computing (3)
  42.690 Independent Study Project in Statistics (1–6)

Ph.D. in Statistics

Admission to the Program

Two letters of recommendation.

Degree and Major Requirements

- A total of seventy-two semester hours of approved graduate work including twelve semester hours of 42.799 Doctoral Dissertation Seminar in Statistics. Thirty hours may be transferred into the program by students who have a master's in statistics.
- Proficiency in two tools of research chosen from French, German, Russian, and a computer language.
- A qualifying examination taken before completion of twenty-four semester hours of course work in the doctoral program.
- Four comprehensive examinations, three written and one oral.

  The fields for the written examinations are: 42.002 Advanced Statistical Theory (administered in two parts), and two chosen from the following: 41.024 Probability, 42.028 Linear Estimation, 42.029 Multivariate Analysis, 42.030 Decision Theory, 42.020 Theory of Sampling, and 41.023 Stochastic Processes.
- A dissertation directed by a full-time faculty member and an oral defense of the dissertation.

Graduate Certificate in Applied Statistics

Admission to the Program

Open to students with a bachelor's degree from an accredited institution.

Course Requirements

- 42.530 Mathematical Statistics I (3)
- 42.531 Mathematical Statistics II (3)
- Three of the following:
  42.510 Theory of Sampling I (3)
  42.515 Regression (3)
  42.516 Design of Experiments (3)

  42.517 Special Topics in Statistical Methodology (3)
  or
  42.519 Nonparametric Statistics (3)

Women's Studies Program

Program Coordinator Roberta Rubenstein (Department of Literature)

The Women's Studies Program at The American University addresses across the curriculum the essential and often neglected subject of women and the significance of gender in shaping the experiences of communities and individuals. In the required interdisciplinary course for the minor in Women's Studies and in a variety of courses offered by departments throughout the university, students focus on women as subject and on the ways in which the omission of the consideration of gender has biased the study of human life. Many faculty members with national reputations for their work in gender issues regularly teach these courses. Their students benefit directly from the expertise of women and men who are at the cutting edge of this newly developing field of scholarly endeavor.

Special Opportunities

Students who minor in Women's Studies complete an internship off campus in an organization or agency whose mission embraces some aspect of women's lives and experiences. Washington, D.C., is the location or headquarters of a number of such diverse organizations as the Mid-Atlantic Center for Sex Equity, National Organization for Women, Women's Equity Action League, Women's Legal Defense Fund, Washington Women's Art Center, and many others. Because of its location in the nation's capital, The American University hosts major speakers and lecture series, such as the recent symposium, "Women in the Changing World," conducted by Jihan Sadat.

In combination with a variety of academic majors, a minor in Women's Studies may lead to a challenging career in an area affecting women's lives, including law, social work, teaching, or research.

Minor in Women's Studies

Admission to the Program

Students who wish to participate in the Women's Studies Program should advise the program coordinator of their interest and complete the declaration-of-minor form.

Course Requirements

- 76.250 Perspectives on Women /A (3)
- 76.491 Internship (3)
- Twelve semester hours of course work, nine of which must be at the 300 level or above, from a list of women's studies courses approved by the Women's Studies Advisory Board.

  Some representative course offerings include:
  02.324 Reinventing American Families /S
  03.342 Women and Work
  03.431 Taboos

07.307 Women and Art
19.303 Women in the Labor Force
21.389 Sexism in School and Society: National and International Perspectives /S
23.370 A Room of One's Own: Women and Literature
29.209 Women in Twentieth-Century America
34.320 Topics in Jewish Culture: Women and Sex in Jewish Tradition
46.323 Women's Health /N
57.497 Advanced Topics in Psychology: Psychology of Sex Differences
65.352 Women and Society /S

Consult the program coordinator for each semester's course offerings in women's studies.

BATTELLE MEMORIAL

The Kogod College of Business Administration

Dean William H. Peters

Academic Associate Dean and Director of Graduate Programs Herbert Glazer

Associate Dean for Student Affairs Herbert P. Stutts

Assistant Dean for Administration Firouz Bahrampour

Director of Academic Support Judith Sugarman

Academic Adviser Arthur Harris

Academic Adviser Uma Saini

Full-Time Faculty

University Professor H.E. Striner

Professor H.K. Baker, C.I. Bartfeld, G.E. Biles, D.R. Brenner, T.V. DiBacco, R.B. Edelman, G.T. Ford, H. Glazer, J.E. Hampton, S.R. Hólmberg, L.L. Karadbil, D.M. Khambata, H. Martyn (Emeritus), M.B. Mazis, J. Owens, W.H. Peters, N.G. Photias (Emeritus), M.P. Sampson, M. Seldin, J.H. Sood, S.D. Whitley (Emeritus)

Associate Professor G.F. Bulmash, J.R. Butts, A.D. Cao, M.J. Culnan, R. Einhorn, R.H. Gorman, S.H. Ivison, Jr. (Emeritus), P.F. Jacoby, J. Kokus, Jr., P.C. Kumar, R.L. Losey, M.A. Mass, I.B. Mehler, D.T. Moore, T. Mroczkowski, H.M. Schilit, J.C. Seigle, V. Selman, P.S. Shen, R.M. Springer, Jr.

Assistant Professor F. Alsaaty, J.M. Bailey, P.A. Blanchard, W.H. Delone, R.P. Hill, D.C. Jacobs, R.G. Linowes, J.F. Magnotti, D.C. Martin, A.C. Perry, A.C. Riley, D.J. Ringold, N. Subramanian, J.L. Swasy, G. Tsetsekos, E.A. Wasil, D.T. Williamson

Instructor P.J. Lamonaca, R.Z. Lawrowycz, C. Prager, A.E. Robinson

The Kogod College of Business Administration prepares men and women for careers as managers in business. The undergraduate program is a liberal-arts-based curriculum with 40% of the courses in liberal arts, 42.5% in business, and 17.5% as elective courses. The college seeks to provide its graduates with entry-level skills so they may be successful as they begin their business careers or graduate study. Yet the program goes beyond this objective by helping students to develop abilities of a broader nature that can be used throughout a lifetime in their careers as successful managers and responsible citizens. Specifically, the program assists students in developing their ability to deal with vast amounts of information in the process of decision making and their ability to apply their business expertise effectively on a worldwide basis.

The goal of the M.B.A. program is to develop practical business managers who can succeed in the complex, technical arena of world-wide business today and in the future. This goal is accomplished by stressing three themes: real world business experience, management information systems, and international business.

The M.B.A. program and the several M.S. programs contain within their required curriculums the business "common body of knowledge" recommended by the American Assembly of Collegiate Schools of Business. The M.B.A. is a broad, general management program with an emphasis in one particular field, while the M.S. programs provide specialized concentrations in specific areas or functions of business. The emphasis in both degrees is on a quality educational experience.

International Business Center

The International Business Center was established to promote the internationalization of all business programs, as well as to develop and administer the Kogod College of Business Administration's international business courses and degree programs. The center also supervises overseas cooperative education experiences, and encourages international business research drawing on the unique international resources of Washington, D.C. The center provides opportunities for professors from other teaching units and other experts in the field to participate in the international business program of the college.

Real Estate Center

The Real Estate Center is dedicated to improving real estate education, research, and public service by fostering a

closer working relationship between real estate professionals, their organizations and associations, the students and alumni of the college, and the university community.

The center contributes to KCBA students' professional and academic development through a series of programs and activities. These include executive-level workshops and institutes, as well as coordination of fellowships, scholarships, and cooperative education experiences. In cooperation with the American Institute of Real Estate Appraisal (AIREA) and the Institute of Real Estate Management (IREM), the center also offers a number of noncredit courses in appraisal and property management. These courses help prepare students for professional certification in appraisal (MAI and RM) and property management (CPM).

By maintaining close contact with licensing commissions, Realtor organizations and boards, and professional associations, the Real Estate Center provides KCBA students with access to the active real estate environment of the Washington, D.C., area.

Bachelor of Science in Business Administration (B.S.B.A.)

Admission to the Program

Students must be approved by the appropriate department of the college for admission into a major. The college recommends that this be accomplished before the student registers for the junior year.

Majors

Accounting; Business Management Information Systems; Finance; International Business; Marketing; Personnel and Industrial Relations; Real Estate and Urban Development; and Real Estate Finance.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of 120 semester hours:

  48 semester hours in liberal arts courses;

  51 semester hours in business courses as follows: 33 semester hours in business core subjects and 18 semester hours in a business major (24 for International Business);

  21 elective semester hours.

Course Requirements

Core Courses

- 10.352 Introduction to Management Information Systems (3)
- 10.353 Organizational Behavior (3)
- 10.355 Quantitative Analysis/Operations Management /N (3)
- 10.458 Business Policy and Strategy (3)
- 11.300 Principles of Marketing (3)
- 12.300 Fundamentals of International Business (3)
- 13.201 Business Law (3)
- 13.365 Corporate Finance (3)
- 13.452 Business Responsibility in American Society /A, S (3)
- 14.240 Principles of Accounting I (3)
- 14.241 Principles of Accounting II (3)

Major Courses

Accounting

- 14.340 Intermediate Accounting I (3)
- 14.341 Intermediate Accounting II (3)
- 14.345 Cost Accounting (3)
- 14.443 Taxation I (3)
- 14.449 Auditing (3)
- 14.450 Introduction to Accounting Information Systems (3)

- Three courses from the following for CPA public practice specialization:
  14.444 Taxation II (3)
  14.480 Accounting Theory and Problems (3)
  14.540 Governmental and Fiduciary Accounting (3)
  14.547 Advanced Financial Accounting (3)

Business Management Information Systems

- 10.354 Business Applications of Computers /N (3) and five more computer systems courses approved by the KCBA faculty adviser in accordance with the student's goals.

Finance

- 19.306 Money and Banking (3)
- 13.464 Financial Markets and Institutions (3)
- 13.468 Financial Decision Making (3)
- 13.469 Investment Analysis (3)

- Two from the following;
  14.340 Intermediate Accounting I (3)
  14.443 Taxation I (3)
  13.476 Real Estate Investment Strategy (3)
  12.302 International Finance (3)

  or other courses approved by the department.

International Business

Four courses in international business:

- 12.301 International Marketing (3)
- 12.302 International Finance (3)

- Two courses selected from the following:
  12.401 Cultural Environment of International Business (3)
  12.504 Multinational Accounting Issues (3)
  12.505 Legal Issues of International Business (3)
  19.311 International Economics /S (3)

- and four courses in one of the following supporting fields:

  Supporting Field of Accounting:
  14.340 Intermediate Accounting I (3)
  14.341 Intermediate Accounting II (3)
  14.345 Cost Accounting (3)

  and one other accounting course selected with the approval of the academic adviser.

  Supporting Field of Business Management Information Systems:
  10.354 Business Applications of Computers /N (3)
  55.334 Programming Concepts I: COBOL /N (3)

  55.434 Programming Concepts II: Advanced COBOL /N (3)
  or
  40.281 Introduction to Computer Science II /N (3) (Pascal)

  55.460 Applied Systems Design (3)

  Supporting Field of Finance:
  19.306 Money and Banking (3)
  13.464 Financial Markets and Institutions (3)
  13.468 Financial Decision Making (3)
  13.469 Investment Analysis (3)

  Supporting Field of Marketing:
  11.301 Consumer Behavior (3)
  11.401 Marketing Research (3)
  11.402 Marketing Problems (3)
  42.300 Business Statistics /N (3)

  Supporting Field of Personnel and Industrial Relations:
  10.381 Introduction to Personnel Administration (3)
  10.382 Employee Participation in Decision Making (3)
  10.383 Problems in Personnel Administration (3)

  and one other personnel course selected with the approval of the academic adviser.

- Six semester hours of a foreign language (in place of two liberal arts elective courses), or competency examination.

Marketing

- 11.301 Consumer Behavior (3)
- 11.401 Marketing Research (3)
- 11.402 Marketing Problems (3)

- Three courses from the following:
  12.301 International Marketing (3)
  11.411 Promotion Management (3)
  11.412 Advertising Campaigns (3)
  11.421 Sales Management (3)
  11.501 Marketing and Public Policy (3)
  11.436 Retailing Management (3)

  and other courses approved by the department.
- 42.300 Business Statistics /N (3) (in place of one liberal arts elective)

Personnel and Industrial Relations

- 10.381 Introduction to Personnel Administration (3)
- 10.382 Employee Participation in Decision Making (3)
- 10.383 Problems in Personnel Administration (3)
- 10.384 Applications in Performance Appraisal (3)

- Two courses from the following:
  10.481 Wage and Salary Administration (3)
  10.482 Pension and Benefits Management (3)
  10.585 Equal Employment Opportunity (3)
  10.586 Management-Union Relations (3)
  or other course approved by the department.

Real Estate and Urban Development

- 13.370 Urban Development /S (3)
- 13.373 Real Estate Principles and Transactions (3)
- 13.474 Real Estate Finance and Economics (3)
- 13.476 Real Estate Investment Strategy (3)
- 13.478 Basic Real Estate Law (3)
- 13.464 Financial Markets and Institutions or an approved elective (3)

Students are encouraged to participate in cooperative education programs.

Real Estate Finance

- 13.373 Real Estate Principles and Transactions (3)
- 13.474 Real Estate Finance and Economics (3)
- 13.476 Real Estate Investment Strategy (3)

- 13.478 Basic Real Estate Law (3)
  or
- 13.370 Urban Development (3)

- 13.464 Financial Market and Institutions (3)
- 13.468 Financial Decision Making (3)

- 13.596 Options and Futures (3)
  or
- 13.469 Investment Analysis (3)

Liberal Arts Requirements

- 23.100 College Writing (3)
- 23.101 College Writing Seminar (3)
- 40.260 Introduction to Computing /N (4)
- 41.211 Applied Calculus I /N (4)
- 42.202 Basic Statistics /N (4)
- 19.101 Introduction to Economics I (Macro) /S (3)
- 19.102 Introduction to Economics II (Micro) /S (3)

- One of the following:
  03.201 Cultural Anthropology /S (3)
  57.100 Introductory Survey of Psychology /N, S (3)
  65.200 Introduction to Sociology /S (3)

  The following with the approval of the KCBA academic adviser:

- Three semester hours in social sciences.
- Three semester hours in history.
- Nine additional semester hours in arts and humanities.

- Three semester hours of natural science selected from an approved list of courses in biology, chemistry, and physics.
- Three semester hours from an approved list of courses in government or political science.

Minor in Business Administration

Designed to provide a minimum coverage of the common body of knowledge in business administration for nonbusiness majors.

Requirements

Since 19.101 Introduction to Economics I (Macro) /S and 19.102 Introduction to Economics II (Micro) /S are prerequisites to 11.300 below, they must be successfully completed *before* starting the Minor in Business Administration sequence.

- 13.201 Business Law (3)
- 14.240 Principles of Accounting I (3)
- 14.241 Principles of Accounting II (3)
- 10.353 Organizational Behavior (3)
- 13.365 Corporate Finance (3)
- 11.300 Principles of Marketing (3)
- 12.300 Fundamentals of International Business (3)
- 13.452 Business Responsibility in American Society /A, S (3)

While not required the following additional courses are highly recommended:

40.260 Introduction to Computing /N (4)
41.211 Applied Calculus I /N (4)
42.202 Basic Statistics /N (4)

Master of Business Administration (M.B.A.)

Admission to the Program

A satisfactory score on the Graduate Management Admission Test (GMAT) and a satisfactory grade-point average for the last sixty hours of academic work. Where applicable, a distinguished record of appropriate employment at increasing levels of responsibility for a period of at least five years may be considered in the admission decision.

Applicants whose first language is not English may be required to pass a special English test before they are permitted to register for KCBA courses. Students who are not native English speakers must also be certified by the English Language Institute.

Areas of Concentration

Students select one of the following areas of concentration: Accounting; Finance; International Business; Marketing; Operations Analysis and Information Systems; Personnel and Industrial Relations; Procurement Management; or Real Estate and Urban Development.

Degree and Concentration Requirements

Students admitted to KCBA graduate-degree programs are expected to have adequate mathematics competency to successfully complete their graduate business programs. Students with inadequate mathematics preparation are required to attend a noncredit mathematics workshop before the completion of twelve semester hours of graduate study. Students are informed of this requirement at the time of admission based on an evaluation of their prior education.

- A total of sixty semester hours of approved graduate work, including twelve core courses, four courses in an area of concentration, and four electives.
- Research requirement: Students must earn a grade of B or better in two courses specified from the total semester-hour requirement as a nonthesis option. These two courses must be taken in residence. Strategic Management (10.755) is required of all M.B.A. students as one of the two nonthesis-option courses. The other required course is identified by an asterisk (*) within each M.B.A. area of concentration.

Course Requirements

Core Courses

- 10.606 Managerial Statistics (3)
- 10.608 Management Science (3)
- 10.610 Organizational Theory and Behavior (3)
- 10.611 Managerial Economics (3)
- 11.601 Marketing Management (3)
- 14.603 Accounting Concepts and Applications (3)
- 10.612 Business Economics (3)
- 10.697 Management Information Systems (3)
- 12.600 Manager in the International Economy (3)
- 13.605 Financial Management (3)
- 13.604 Business, Government, and Society (3)
  or
  13.648 Legal Concepts of Business Organizations (3)
- 10.755 Strategic Management (3) (normally taken in the student's last semester of course work)

Area of Concentration

Accounting

- 14.640 Financial Accounting I (3)
- 14.641 Financial Accounting II (3)*
- 14.645 Managerial Cost Accounting (3)
- One more graduate accounting course with approval of the faculty adviser.

Personnel and Industrial Relations

- 10.671 Issues in Personnel Resources Administration (3)
- 10.681 Wage and Salary Administration (3)
- 10.684 Seminar in Performance Appraisal (3)
- 10.792 Seminar in Industrial Relations Administration (3)*

Finance

- 13.666 Long-Term Capital Management (3)
- 13.667 Short-Term Funds Management (3)
- 13.765 Seminar in Finance (3)*

- One course from the following:
  12.602 International Finance (3)
  13.665 Financial Statement Analysis (3)
  13.668 Advanced Investment Analysis (3)
  13.671 Financial Management of Depository Institutions (3)
  or other courses approved by the department.

International Business

- Three courses from the following:
  12.504 Multinational Accounting Issues (3)
  12.505 Legal Issues of International Business (3)
  12.601 International Marketing (3)
  12.602 International Finance (3)
  12.603 Comparative Management Systems (3)
  12.606 International Banking (3)

- 12.701 Seminar in International Business (3)*

Marketing

- 11.604 Marketing Research (3)
- 11.607 Strategic Marketing (3)*

- Two courses from the following:
- 11.501 Marketing and Public Policy (3)
- 11.602 Consumer Behavior (3)
- 11.603 Industrial and Government Markets (3)
- 11.605 Promotion Management (3)
- 12.601 International Marketing (3)

Note: Students are encouraged to participate in the cooperative education program to gain practical experience in marketing. These assignments may lead to permanent employment.

Students are encouraged to participate in the Department of Marketing Internship Program (11.691) to gain practical training in the field. A maximum six semester hours of internship experience may be used as elective courses in the M.B.A. program.

Operations Analysis and Information Systems

- 10.760 Seminar in Operations Analysis (3)*

- Three courses selected in consultation with the KCBA faculty adviser.

Procurement Management

- 11.660 Principles of Procurement Management (3)
- 11.661 Federal Procurement Law (3)
- 11.664 Contract Administration (3)
- 11.669 Seminar in Procurement Policy (3)*

Real Estate and Urban Development

- 13.679 Real Estate and Land Economics (3)
- 13.683 Real Estate Analysis (3)
- 13.684 Real Estate Finance and Mortgage Markets (3)
- 13.776 Seminar in Real Estate and Urban Development (3)*

Students are encouraged to participate in cooperative education programs.

Electives

- Four courses approved by the faculty adviser (no more than one may be in the area of concentration; courses may be outside the college).

Special Opportunities

The M.B.A. degree may be obtained by attending evening classes part time. Cooperative Education experiences are available for elective credits. The curriculum is designed to accommodate students with or without an undergraduate business degree.

Waiver and Transfer Policy

Up to twelve semester hours of graduate-level courses may be transferred into the M.B.A. program if earned with grades of B or better at an accredited institution within five years before admission. Up to twenty-four semester hours may be waived for students who have completed the appropriate undergraduate or graduate courses with grades of B or better at an accredited institution within five years before admission. The combination of transferred and waived courses cannot exceed a total of twenty-four semester hours. A minimum of thirty-six semester hours must be taken in residence for this sixty-credit-hour M.B.A. program.

Master of Science Degrees

The Kogod College offers nine Master of Science degrees which are designed to provide graduates with in-depth specialization in a professional business field as well as the breadth of study in business administration essential to successful managers. Degree requirements vary from a minimum of ten courses to a maximum of sixteen courses (except for the M.S. in Accounting or Taxation) depending on an evaluation of each student's educational background. All M.S. degrees may be obtained by attending evening classes part time.

Admission to the Program

The requirements for admission to all business M.S. degree programs are the same as those for the M.B.A. degree, except that applicants for the M.S. in Accounting or Taxation may substitute successful completion of the CPA examination for the GMAT. Prior education in business is not required except for the M.S. in Taxation program.

Areas of Specialization

Students select one of the following areas: Accounting; Finance; International Business; Marketing; Operations Analysis and Information Systems; Personnel and Industrial Relations; Procurement Management; Real Estate and Urban Development; Taxation.

Degree Requirements

Students admitted to KCBA graduate-degree programs are expected to have adequate mathematics competency to

successfully complete their graduate business programs. Students with inadequate mathematics preparation are required to attend a noncredit mathematics workshop before the completion of twelve semester hours of graduate study. Students are informed of this requirement at the time of admission based on an evaluation of their prior education.

All M.S. programs include a common core of eight courses and a field of specialization which varies from eight to ten courses. A minimum of thirty semester hours must be taken in residence. Students qualifying for waiver of specified courses may select additional advanced electives with the approval of the program director to satisfy residence requirements. Students must earn a grade of B or better in two specified capstone courses. Strategic Management (10.755) is normally one of the nonthesis-option courses required for M.S. students. The other required course is identified by an asterisk within each M.S. field of specialization. A written comprehensive examination in the field is required in all M.S. programs.

Course Requirements

Core Courses

- 10.606 Managerial Statistics (3)
- 10.610 Organizational Theory and Behavior (3)
- 10.611 Managerial Economics (3)
- 10.697 Management Information Systems (3)
- 10.755 Strategic Management (3)
- 11.601 Marketing Management (3)
- 13.605 Financial Management (3)
- 14.603 Accounting Concepts and Applications (3)

Area of Specialization

Accounting

- 13.648 Legal Concepts in Business Organizations (3)
- 14.547 Advanced Financial Accounting (3)
- 14.604 Federal Income Taxation (3)
- 14.640 Financial Accounting I (3)
- 14.641 Financial Accounting II (3)
- 14.645 Managerial Cost Accounting (3)
- 14.649 Auditing Theory and Practice (3)
- 14.650 Accounting Information Systems (3) (to be taken in place of 10.697).
- 14.780 Seminar in Accounting Theory (3)*

- Plus one course selected with the approval of the department chair from the following:
  13.665 Financial Statement Analysis (3)
  14.540 Governmental and Fiduciary Accounting (3)
  14.652 Advanced Auditing (3)

  Note: Most graduate courses qualify for continuing education credits for certified public accountants.

Finance

- 12.602 International Finance (3)
- 13.665 Financial Statement Analysis (3)
- 13.666 Long-Term Capital Management (3)
- 13.667 Short-Term Funds Management (3)
- 13.668 Advanced Investment Analysis (3)
- 13.671 Financial Management of Depository Institutions (3)
- 13.765 Seminar in Finance (3)*
- 14.640 Financial Accounting I (3)

International Business

- 12.600 Manager in the International Economy (3)
- 12.701 Seminar in International Business (3)*

- Four courses from the following:
  12.601 International Marketing (3)
  12.602 International Finance (3)
  12.603 Comparative Management Systems (3)
  12.504 Multinational Accounting Issues (3)
  12.505 Legal Issues of International Business (3)
  12.606 International Banking (3)

- Two international-business-related courses selected with the approval of the faculty adviser.

  Note: Special arrangements may be made for study or cooperative education experiences abroad.

Marketing

- 11.602 Consumer Behavior (3)
- 11.603 Industrial and Government Markets (3)
- 11.604 Marketing Research (3)
- 11.605 Promotion Management (3)
- 11.607 Strategic Marketing (3)*
- 12.601 International Marketing (3)

- Two courses selected in consultation with the faculty adviser.

  Note: Students are encouraged to participate in the cooperative education program to gain practical experience in marketing. These assignments may lead to permanent employment.

Operations Analysis and Information Systems

- 10.608 Management Sciences (3)
- 10.614 Operations and Systems Management (3)
- 10.758 Seminar in Management Planning and Control (3)
- 10.760 Seminar in Operations Analysis (3)*
- 14.645 Managerial Cost Accounting (3)

- Three courses selected in consultation with the faculty adviser.

Personnel and Industrial Relations

- 10.585 Equal Employment Opportunity (3)
- 10.671 Issues in Personnel Resource Administration (3)
- 10.681 Wage and Salary Administration (3)
- 10.684 Seminar in Performance Appraisal (3)
- 10.792 Seminar in Industrial Relations Administration (3)*

- Three courses selected in consultation with the faculty adviser from the following:
  10.586 Management-Union Relations (3)
  10.682 Seminar in Pension and Benefits Management (3)
  10.694 Seminar in Personnel Resources Training and Development (3)

10.695 The Legal Environment of Human Resource Management (3)
10.795 Human Resource Planning (3)

Note: Special arrangements may be made with government and industry employers for cooperative education assignments which may lead to permanent employment.

Procurement Management

- 11.660 Principles of Procurement Management (3)
- 11.661 Federal Procurement Law (3)
- 11.662 Materials Management and Purchasing (3)
- 11.663 Cost and Price Analysis (3)
- 11.664 Contract Administration (3)
- 11.666 Major-Systems Acquisition (3)
- 11.667 Service Contracting (3)
- 11.669 Seminar in Procurement Policy (3)*

Note: Special arrangements may be made with government and industry employers for cooperative education assignments which may lead to permanent employment.

Public Relations Management

The program in Public Relations Management is being terminated and no new admissions are being accepted. (The School of Communication will be offering a graduate program in public relations. Consult the school for information.) Students already enrolled and currently in active status will have the opportunity to complete their degrees as arranged.

Real Estate and Urban Development

- 13.678 Real Estate and Property Law (3)
- 13.679 Real Estate and Land Economics (3)
- 13.683 Real Estate Analysis (3)
- 13.684 Real Estate Finance and Mortgage Markets (3)
- 13.685 Land Use and Development (3)
- 13.776 Seminar in Real Estate and Urban Development (3)*

- Six semester hours selected from the following:
  10.612 Business Economics (3)
  13.534 Basic Valuation Procedures (2)
  13.535 Capitalization Theory and Techniques A (1)
  13.536 Capitalization Theory and Techniques B (2)
  13.561 Institute on Property Management II (3)

Note: Special arrangements may be made with employers for internship assignments.

Taxation

Admission

Admission to the M.S. in Taxation program requires an undergraduate bachelor's degree in business administration from an accredited institution with a satisfactory grade-point average for the last sixty semester hours and a satisfactory score on the Graduate Management Admission Test (GMAT). Students who have successfully completed the CPA examination may substitute this for the GMAT. The applicant must demonstrate satisfactory completion of course work equivalent to the eight common M.S. core courses and in addition, two semesters of intermediate accounting, one semester of business law, and one semester of federal income taxation. Any deficiencies in the above prerequisite courses may be completed at the graduate level at The American University after admission to the program and are in addition to other program requirements.

Degree Requirements

The M.S. in Taxation curriculum consists of ten graduate tax courses (thirty semester hours), including five required core tax courses (fifteen hours), two required research-oriented courses (six hours), and three elective tax courses (nine hours).

Core Tax Courses (fifteen semester hours):
- 14.630 Legislative and Judicial Foundations of Income Tax (3)
- 14.631 Tax Research and Procedure (3)
- 14.632 Estate and Gift Tax (3)
- 14.633 Corporation Income Taxation I (3)
- 14.634 Partnership Taxation (3)

Research-Oriented Courses (six semester hours):
- 14.750 Tax Policy (3) (with a grade of B or better)

- 14.751 Seminar in Business Tax Planning (3) (with a grade of B or better)

or

- 14.752 Seminar in Family Financial Planning (3) (with a grade of B or better)

Nine semester hours of electives chosen from the following:
14.740 Corporation Income Taxation II (3)
14.741 State and Local Taxation (3)
14.742 Special Tax Topics (1–3)
14.743 International Taxation (3)
14.744 Advanced Topics in Tax Accounting and Procedure (3)
14.745 Employee Benefit Tax Planning (3)
14.746 Taxation of Real Estate Transactions (3)

Note: The M.S. in Taxation is designed to prepare students for professional careers specializing in the practice of taxation in government, industry, or as private practitioners. The curriculum provides a comprehensive basic foundation in taxation and, in addition, provides opportunities for intensive specialization in advanced tax topics. The degree may be pursued on a full-time basis, or by attending evening classes part-time. Graduate tax courses qualify for CPA continuing professional education in jurisdictions having such a requirement.

J.D./M.B.A. Joint Degree Program

A joint cooperative J.D./M.B.A. program is offered by the Kogod College of Business Administration and the Washington College of Law.

Admission to the Program

Each applicant must satisfy the admission requirements of both KCBA and WCL before being admitted to the program.

Degree Requirements

Requirements for the M.B.A. degree vary from a maximum of sixty semester hours to a minimum of thirty-six se-

mester hours depending upon the student's prior education. Students may waive up to eight core or business elective courses based on appropriate undergraduate business course work. The Kogod College of Business Administration (KCBA) may also give credit toward the M.B.A. degree for up to a maximum of six semester hours for courses or seminars taken at the Washington College of Law (WCL).

For the J.D. degree, students must complete eighty-six semester hours. The Washington College of Law may give credit toward the J.D. degree up to a maximum of six semester hours for courses or seminars taken at KCBA, provided they are appropriate and approved by the Joint WCL-KCBA Committee.

M.S. in Health/Fitness Management

This degree program is offered jointly by the College of Arts and Sciences and the Kogod College of Business Administration. The program has been designed to incorporate basic knowledge of business and managerial skills with the scientific and clinical knowledge of exercise physiology, human chemistry, psychology, and nutrition. The primary objective is to provide a competency-based, multidisciplinary academic track for students interested in assuming leadership and managerial positions in health and physical fitness.

For a description of the program, see the section for the Department of Physical Education of the College of Arts and Sciences in this publication.

Business Certificate Programs

The Kogod College offers several business certificate programs designed to provide qualified students with a prescribed sequence of courses which concentrate on a particular professional business field. Certificates are not degree programs, but nondegree certificate students earn academic credit for business courses and are held to the same academic standards as degree students. Certificate programs provide an advantageous alternative for individuals to fulfill career education goals without pursuing a complete degree program. Credit earned in nondegree status may, with certain restrictions, be applied toward a degree program. A student's acceptance into a nondegree certificate program, however, does not in any way assure later acceptance into a business degree program.

Graduate business certificate programs are offered in Accounting, Business Management, Procurement Management, and Real Estate and Urban Development.

Admission to the Programs

To be considered for admission to all business certificate programs, applicants must meet the prerequisites specified for the business courses which make up the certificate program.

Applicants for graduate business certificates must meet the same admission standards as applicants for graduate business degree programs: a satisfactory score on the Graduate Management Admission Test (GMAT) and a satisfactory grade-point average for the last sixty hours of academic work. Applicants for the Graduate Certificate in Accounting may substitute successful completion of the CPA examination for the GMAT. All certificate students must complete the required certificate program within three years of admission.

Graduate Certificate in Accounting

Course Requirements

- 13.648 Legal Concepts of Business Organizations (3)
- 14.547 Advanced Financial Accounting (3)
- 14.603 Accounting Concepts and Applications (3)
- 14.604 Federal Income Taxation (3)
- 14.640 Financial Accounting I (3)
- 14.641 Financial Accounting II (3)
- 14.645 Managerial Cost Accounting (3)
- 14.649 Auditing Theory and Practice (3)
- 14.780 Seminar in Accounting Theory (3)

- One from the following:
  13.605 Financial Management (3)
  14.540 Governmental and Fiduciary Accounting (3)
  14.650 Accounting Information Systems (3)
  14.652 Advanced Auditing (3)

Graduate Certificate in Business Management

Course Requirements

- Five from the following:
  10.606 Managerial Statistics (3)
  10.610 Organizational Theory and Behavior (3)
  10.611 Managerial Economics (3)
  11.601 Marketing Management (3)
  13.604 Business, Government, and Society (3)
  13.605 Financial Management (3)
  14.603 Accounting Concepts and Applications (3)

Graduate Certificate in Procurement Management

Course Requirements

- 11.660 Principles of Procurement Management (3)
- 11.661 Federal Procurement Law (3)
- 11.662 Materials Management amd Purchasing (3)
- 11.663 Cost and Price Analysis (3)
- 11.664 Contract Administration (3)
- 11.669 Seminar in Procurement Policy (3)

Graduate Certificate in Real Estate and Urban Development

Course Requirements

- Nine courses selected from the following:
  13.370 Urban Development /S (3)

13.373 Real Estate Principles and Transactions (3)
13.476 Real Estate Investment Strategy (3)

13.460 Institute on Property Management I (3)
or
13.462 Real Estate Appraisal Principles (1) and
13.534 Basic Valuation Procedures (2)

(may be waived for persons with equivalent course work or experience)

13.561 Institute on Property Management II (3)
or
13.535 Capitalization Theory and Techniques A (1)
and
13.536 Capitalization Theory and Techniques B (2)
and
13.678 Real Estate and Property Law (3)

13.679 Real Estate and Land Economics (3)
13.683 Real Estate Analysis (3)
13.684 Real Estate Finance and Mortgage Markets (3)
13.685 Land Use and Development (3)
• 13.776 Seminar in Real Estate and Urban Development (3)

Internship or special study: (three semester hours) optional. Arrangements are made through the real estate faculty of the Kogod College of Business Administration.

AU students get experience with business uses of the computer.

THE WASHINGTON COLLEGE OF LAW LIBRARY
ALVINA RECKMAN MYERS HALL

Washington College of Law

Dean Frederick R. Anderson

Associate Dean for Faculty and Academic Affairs Greer S. Goldman

Associate Dean for Student Affairs Edwin R. Hazen

Director of the Law Library Patrick E. Kehoe

Assistant Dean for Administration Wanda J. Delgado

Director of Clinical Programs Elliott S. Milstein

Director of Professional Programs and Alumni Affairs Paul P. Purta

Overview of the Law School

The Washington College of Law was founded in 1896. It has a full-time faculty of 40 and a student body of approximately 1,000. The law school combines a rigorous and challenging atmosphere for legal studies with a highly personal approach to teaching.

The focus of the curriculum is on the methodology, practical skills, and theories fundamental to the practice of law. This is carried out through a wide range of traditional course offerings, supplemented by an extensive clinical program, simulation courses, and an international law program. These educational offerings are complemented by the vast legal network of federal agencies, courts, regulatory commissions, international organizations, and law firms present in Washington.

Legal Study in Washington

The American University Washington College of Law is located in the northwest section of the city a short distance from Congress, the Supreme Court, the United States District Court and Court of Appeals, and the Maryland, Virginia, and District of Columbia courts. Washington is the center of all federal regulatory process, and is the principal home of every major federal agency, such as the Securities and Exchange Commission, the Federal Communications Commission, the Internal Revenue Service, and the Federal Trade Commission. Washington is also the base for U.S. cabinet-level departments, for example, the Department of Energy, the Department of Education, the Department of Justice, and other agencies, all of which perform functions critical to the federal system and contribute to an environment for legal education unparalleled outside this city. Accordingly, judicial, executive, and legislative internships form an integral part of the legal education of many of our students. In addition, Washington is the seat of the world's principal intergovernmental financial institutions: the World Bank, the International Monetary Fund, and the Inter-American Development Bank are here. So, too, are the Organization of American States and the International Telecommunications Satellite Organization. Private or nongovernmental organizations, among them Amnesty International and the International Human Rights Law Group, have offices in Washington, and a majority of the world's leading international law firms can be found in this city.

Taking advantage of this natural setting for study and work, the law school offers many unique courses taught by its full-time faculty and by specialists who are members of the adjunct faculty. Field components are available in various courts and government agencies, and are carefully supervised by faculty members and designated field supervisors. For second-and third-year students interested in part-time law-related jobs, the Placement Office coordinates requests for law student employment from law firms, corporations, courts, and government agencies. Further, the law school offers a unique training program in federal regulatory process—the Washington Law Semester Program—which has a separate lecture faculty of forty-five top-level officials from the government and private sector.

The Academic Program

The American University law school has a strong national and international substantive focus, offering a broad range of courses in addition to the basic program necessary for state bar examinations. The law school clinic is divided into two parts, the Criminal Justice Clinic and the Public Interest Clinic. The Criminal Justice Clinic permits students to handle criminal cases from the perspective of both the defense and the prosecution. The Public Interest Clinic permits students to work on extensive major federal litigation, involving both federal agencies and courts. The Public Interest Clinic has recently focused on the Veterans Administration, though the subject matter of this program is flexible. Beyond the

classroom, the clinical program, and field placements at federal, state, and local agencies, courts, and legislatures, the academic offerings are enriched by an extensive independent study research program allowing for intensive faculty-student work on complex legal research projects. Finally, *The American University Law Review* and *The American University Journal of International Law and Policy* provide a unique opportunity for students to develop expertise in traditional legal writing and research.

The basic first-year classes are taught using case analysis and dialogue as well as the problem method. First-year students take an intensive course in legal research and writing taught by attorneys from leading law firms or government agencies. Upper-class courses are mostly elective and include a wide variety of teaching styles and formats. The academic program leading to the Juris Doctor degree is designed to allow students to develop special skills in public law, business and commercial law, international law, property and land use, and related fields. In addition to the Juris Doctor program, the law school offers a Master of Laws (LL.M.) in International Law and participates in three joint degree programs, the J.D./M.A. in Law and International Affairs, the J.D./M.B.A. in Law and Business, and the J.D./M.S. in Law and Justice. The LL.M. in International Legal Studies permits specialization in one of three areas: international finance and banking; international economic transactions and commerce; and international organizations.

These programs are all greatly enhanced by the availability of the many excellent research law libraries which are located in the city of Washington and which comprise resources unmatched elsewhere. The Washington College of Law's own Alvina Reckman Myers Law Library contains a book collection of some 200,000 volumes and provides computerized legal research facilities for students and faculty using its LEXIS and WESTLAW terminals. The law library is the research base for the entire academic program, serving students and law faculty.

Student Body

Students at the law school come from several nations, more than forty states, and 250 undergraduate colleges and universities. Approximately half are women. There are a number of law students who have extensive work experience or advanced degrees in other disciplines. Students participate in numerous organizations, including the *Law Review*, the Moot Court Program, Student Bar Association, the *Matrix* (law school paper), the Black Law Student Association (BLSA), the Hispanic Law Students Association, the Asian Pacific–American Law Students Association, the Women's Law Association, and the International Law Society. The students are actively involved in the governance of the school and sit on most faculty committees.

Admissions

The law school receives approximately 3,200 applications for about 300 places in the J.D. program entering class. The average LSAT of entering students is 36 and the average grade-point average is 3.3. The Admissions Committee uses a rolling admissions system and notifies applicants as decisions are made. There are limited places for transfer and unclassified students. Financial aid, based on need, is available in the form of scholarships and loans. Second-and third-year students with good academic records are eligible for Deans' Research and Teaching Fellowships. Specific requests for information regarding admissions, financial aid, or programming should be sent directly to the Washington College of Law, The American University, Washington, D.C. 20016.

Lucy Webb Hayes School of Nursing

Acting Dean Pat O'Connor-Finn

Full-Time Faculty

Professor J. Gimble, L.B. Kummer (Dean Emerita), L.B. Neiswender (Emerita), M.R. Randall (Emerita)

Associate Professor G.L. Dhillon, P. O'Connor-Finn

Assistant Professor J.A. Matthews, M. Mize

Instructor P. Michaud

The faculty of the School of Nursing believe that nursing is a professional discipline which strives to maintain, promote, and restore the adaptation of human beings in situations of health and illness throughout the life cycle. Nursing is viewed as a socially significant activity which renders an essential contribution to society.

The nursing program prepares graduates who are expected to demonstrate beginning competencies to: 1) provide care to individuals, families, groups, and communities through nursing; 2) function in the roles of direct care-giver, advocate, and teacher/counselor in various settings; 3) assume the responsibilities incumbent on a professional person; and 4) apply leadership skills.

Clinical Facilities

The School of Nursing is associated with selected and approved health-care agencies which serve as sites for clinical practice. These include: Sibley Memorial Hospital, Children's Hospital National Medical Center, Columbia Hospital for Women, George Washington University Medical Center, Psychiatric Institute of the District of Columbia, Suburban Hospital, National Naval Medical Center, the Montgomery County Health Department, and other selected health-care agencies.

B.S. in Nursing

Admission to the Program

Applications for admission to the School of Nursing are no longer being accepted. The B.S. in Nursing degree has been terminated. Students already enrolled in the degree program will be given an opportunity to complete the degree.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A minimum of 120 semester hours including all courses in the nursing major with grades of C or better. A minimum grade of C is required in all science courses (chemistry, biology, anatomy and physiology, and microbiology).
- Before the beginning of the junior year students are required to obtain selected immunizations, current certification of cardiopulmonary resuscitation skill, and appropriate liability insurance. It is expected that students progressing beyond the sophomore level meet the academic standards of the school and possess the necessary technical competencies required for the nursing practicum.

Course Requirements

Freshman Year

Fall

- 15.120 General Chemistry I /N (3)
- 15.121 General Chemistry I Laboratory /N (1)
- 23.100 College Writing (3)
- 65.200 Introduction to Sociology /S (3)
- Arts and humanities elective (3)

- Additional elective (3)

Spring

- 15.130 General Chemistry II /N (3)
- 15.131 General Chemistry II Laboratory /N (1)
- 23.101 College Writing Seminar (3)
- 57.100 Introductory Survey of Psychology /N, S (3)
- 09.101 General Biology I Lecture /N (3)
- 09.103 General Biology I Laboratory (1)

Sophomore Year

Fall

- 46.204 Introduction to Professional Nursing (3)
- 46.241 Normal Nutrition (3)
- 46.209 Growth and Development Through the Life Cycle (3)
- 09.330 Human Anatomy and Physiology I Lecture (3)
- 09.332 Human Anatomy and Physiology I Lab (1)
- Arts and humanities elective (3)

Spring

- 09.331 Human Anatomy and Physiology II Lecture (3)
- 09.333 Human Anatomy and Physiology II Laboratory (1)
- 46.205 The Nursing Process in Health (4)
- 09.340 Microbiology (3)
- 09.341 Microbiology Laboratory (2)
- Elective (3)

Junior Year

Fall

- 46.332 Group Work in Nursing (2)
- 46.360 Introduction to Nursing Research (2)
- 46.304 Nursing Care of Individuals I (6)
- 46.306 Nursing Care of Groups I (3)
- Elective (3)

Spring

- 46.305 Nursing Care of Individuals II (4)
- 46.307 Nursing Care of Groups II (5)
- 46.325 Professional Issues Seminar I (1)
- Electives (6)

Senior Year

Fall

- 10.353 Organizational Behavior (3)
- 46.404 Nursing Care of Individuals III (4)
- 46.406 Nursing Care of Groups III (5)
- 46.424 Professional Issues Seminar II (1)
- Elective (3)

Spring

- 46.405 Nursing Care of Individuals IV (6)
- 46.407 Nursing Care of Groups IV (3)
- 46.425 Professional Issues Seminar III (1)
- 46.409 Selected Topics in Nursing (3)

Note: Availability of a car is recommended, but not required, during the junior and senior years for selected clinical experiences.

The College of Public and International Affairs

Dean Robert E. Cleary

Associate Dean for Administration Richard L. Apperson

Dean, School of Government and Public Administration Dorothy Buckton James

Dean, School of International Service Louis W. Goodman

Dean, School of Justice Rita J. Simon

Director, Center for Technology and Administration Robert Paul Boynton

Director, Office of Sponsored Programs Judith A. Sidor

Director, Quantitative Teaching and Research Laboratory Thomas J. Bergin

The College of Public and International Affairs is committed to education and research programs in the field of public affairs. An interest in public and international affairs reflects a concern for people and how they interact with government institutions and political systems. Students are able to pursue this interest through a comprehensive educational experience that includes classroom instruction, individual research, and practical professional training. Through its four components—the School of Government and Public Administration, the School of International Service, the School of Justice, and the Center for Technology and Administration—the college provides a comprehensive and conceptually unified approach to the study of public affairs at every level—international, national, and local. Each program is designed to focus on specific career interests, including careers in government and not-for-profit organizations, but all are multidisciplinary, issue-and policy-oriented, and adapted to the unique educational opportunities of metropolitan Washington.

Washington is an ideal location for studying public affairs. As the site of national government and as a world capital, the city daily provides students with vivid evidence of the interrelationships of domestic and foreign politics. Students can observe first hand the political, economic, and environmental forces shaping public affairs and public policy. As an integral part of the curriculum, internships in private and public organizations lend a practical dimension to the academic programs and provide the opportunity to interact with practitioners in the art of policy making. Washington's facilities for scholarly research and personal enrichment include such government institutions as the Library of Congress, the National Archives, and the Smithsonian Institution, as well as many specialized departmental and agency libraries.

The College of Public and International Affairs, drawing on the facilities of the university, the Consortium of Universities of the Washington Metropolitan Area, and the Washington community, offers a unique combination of resources for study and practical experience in the field of public affairs. The college's comprehensive range of academic and professional programs leads to degrees at the bachelor's, master's, and doctoral levels.

The Faculty

The college has more than eighty full-time faculty members including both nationally recognized scholars and others distinguished by their records of public service. Augmenting the full-time faculty is an adjunct faculty of eminent government officials and other public-affairs practitioners who bring to the classroom the special insight acquired in their professional experience.

Full-time faculty are listed in the section for each school and center.

Internships and Cooperative Education Opportunities in Washington

The college encourages qualified students to work for course credit as interns in various governmental, political, and private organizations. These internships are designed to give students practical involvement in political processes or action programs. For example, a student might work for a member of Congress, the Department of State, or for other organizations directly concerned with domestic or international policy. Students may also participate in the Cooperative Education Program, which combines course credit and paid practical experience. See the Cooperative Education Program section in this publication.

Independent Study Programs

The College of Public and International Affairs encourages students to engage in independent study projects re-

lated to their particular fields of interest. These usually take the form of reading, research, and often field work in the Washington area, and are arranged directly with a faculty member. Course credit is given.

Career and Professional Opportunities

A public affairs education prepares students for a variety of public service careers. Graduates serve public or private agencies where they assist in creating or implementing policy alternatives. Some teach public administration, public management, political science, and related courses at universities, colleges, or secondary schools. Others seek those broader opportunities in the private-sector professions not formally related to their degree programs. Alumni are currently serving as city managers, lawyers, police and correction officers, legislative assistants, budget or systems analysts, interpreters, newspaper editors, foreign service officers, and elected government officials.

Honorary Societies

The College of Public and International Affairs encourages and recognizes both academic and professional achievement by students and alumni through membership in the local chapters of national honorary societies. Pi Sigma Alpha, the national political science honor society, founded in 1920, is open to selected juniors, seniors, and graduate students majoring in political science or international relations. Pi Alpha Alpha is the National Honorary Society for Public Affairs and Administration. The College of Public and International Affairs has one of the eighteen charter chapters. Selected seniors and graduate students completing their programs are invited to join if they meet the academic standards set by the chapter.

Alpha Chapter of Sigma Iota Rho, the international relations honor society, was founded at The American University on April 12, 1984. Sigma Iota Rho is an interdisciplinary scholarly recognition society founded for undergraduates whose course of study concentrates on international relations.

Alpha Phi Sigma is the national honor society for criminal justice. It recognizes scholastic excellence by undergraduate and graduate students in the justice sciences.

Undergraduate Study

Undergraduate students may plan their academic programs to meet personalized learning objectives within university and college requirements.

Recognizing that a multidisciplinary education is increasingly required to meet the ever-changing nature of the public affairs profession, advisers encourage students to take courses in other units.

Students may enter one of the four schools, or may choose or be assigned undeclared status in the College of Public and International Affairs.

Study Abroad

The College of Public and International Affairs provides opportunities for study abroad, from the traditional Junior Year Abroad to special programs such as the London, Rome, Copenhagen, Brussels, Bonn, Vienna, Buenos Aires, and Caribbean semesters. In addition, the summer sessions include courses, workshops, and tours abroad which are relevant to the curriculums of the college.

Graduate Study

The graduate degree programs in the College of Public and International Affairs serve a number of diverse educational needs. Most master's programs educate students for specific professional careers in government and other nonprofit organizations at local, national, and international levels. These programs emphasize managerial, analytical, and conceptual skills necessary for professional success in the public service. Others provide students with a general understanding of the academic disciplines related to public affairs. Doctoral programs are designed to prepare qualified individuals for professional appointments in teaching, scholarly research, and executive management and are offered in political science, public administration, and international studies.

Unique Educational Resources

Computer-aided instruction and research is encouraged in the college and facilitated by a wide variety of technical resources. The college operates a Quantitative Teaching and Research Laboratory to introduce students to the use of computers, statistics, and mathematical methods in social research and management applications. This lab is staffed with graduate assistants who tutor the new user or provide professional consulting to the experienced user.

Through the lab, the student has access to IBM personal computers or to the IBM 4381 mainframe computer operated by the university. Software is provided for the personal computers for word processing, spreadsheets, graphics, statistics, mathematical modeling, and computer-programming applications. An extensive selection of programs and languages is available on the mainframe for social science applications, including the Statistical Package for the Social Sciences (SPSS) and the Statistical Analysis System (SAS). As a member institution of the Inter-University Consortium for Political and Social Research, the college has access to thousands of social science data sets and maintains hundreds of these on tape at the university.

School of Government and Public Administration

Dean Dorothy Buckton James

Full-Time Faculty

Professor G.M. Bonham, R.P. Boynton, R.E. Cleary, E.H. DeLong (Dean Emeritus), J. Fishel, C.H. Goodman (Emeritus), M. Greenberg, S.W. Hammond, J.J. Hanus, L.H. Hattery (Emeritus), D.B. James, D.H. Koehler, L. Langbein, H.E. McCurdy, M. Meadows, E.V. Mittlebeeler (Emeritus), A. Perlmutter, N.S. Preston (Emeritus), E.S. Robinson (Emeritus), B.H. Ross, B.R. Schiller, M. Segal, R.G. Smolka, M.P. Walker, J.D. Young

Associate Professor C.M. Kerwin, R.A. Lane, W.M. LeoGrande, H. Lieber, B.F. Norton, R. Stout, Jr., J.A. Thurber, D.G. Zauderer

Assistant Professor R.G. Higgins, D. Kelly, J. Mendelson, D.C. Minns, R. O'Connor, J.T. Richelson, L. Toulman, L. Wells, Jr.

Research Professor F.A. Hermens

Distinguished Adjunct Professors in Residence A. Alpern, M. Comarow, B. Rosen

The School of Government and Public Administration makes use of the special opportunities available to it from its location in the nation's capital for the teaching and study of political science and public administration.

The school's undergraduate program focuses on government and public affairs as an aspect of a broad liberal arts education. It prepares the student for an enlightened role in national and community affairs. This program can lead to a career in public affairs or any private or not-for-profit area that deals with the growing interrelationship between the public and private sectors. It also provides a solid and comprehensive foundation for the student who plans to pursue further education before entering a career in public affairs or politics, governmental administration, law, teaching, or research.

The graduate program is designed to prepare students for academic or professional careers in public affairs or policy analysis. The master's and doctoral programs in political science and public administration are flexible in order to meet the educational needs of a diverse student population.

B.A. in Political Science

Admission to the Program

New freshmen and transfer students are admitted through the university's Office of Admissions. Students currently enrolled in the university who wish to transfer into the School of Government and Public Administration or develop a double major or minor should have a 2.00 grade-point average and the approval of the undergraduate academic adviser.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of fifty-four semester hours with grades of C or better.

Course Requirements

- 53.120 Introduction to American Politics /S (3–4)
- 53.200 Great Issues of Political Thought /A, S (3)
- One of the following:
  - 53.230 Comparative Politics: Change, Leadership, Participation /S (3)
  - 53.231 Third World Politics /S (3)
  - 53.330 Politics of Industrial Societies /S (3)
- One of the following:
  - 33.202 World Politics /S (3)
  - 33.381 Foreign Policies of the Great Powers /S (3)
  - 33.382 The Analysis of United States Foreign Policy /S (3)
- Three hours of social science research methods or any statistics course that meets the distributive requirement in the natural and mathematical sciences.
- Twenty-one semester hours at the 200 or 300 level.
- Six semester hours at the 400 or 500 level.
- Twelve semester hours to be distributed over two of the following cognate disciplines above the introductory level: economics, history, international relations or foreign policy, sociology and specified courses in American studies, anthropology, communication, justice, philosophy, and psychology.

  No more than nine hours (with a maximum of six hours in any one area of concentration) of the following may be applied to these requirements: internships, co-operative education, independent study, independent reading, Washington Semester programs, and American University study abroad programs.

  Political science majors may count up to three courses offered by the School of International Service, in addition to 33.202, 33.381, or 33.382 as part of the major and related course requirements. Students using two School of International Service courses under the major are limited to one School of International Service course under related course requirements.

B.A. in Interdisciplinary Studies: Communication, Legal Institutions, Economics, and Government (CLEG)

Admission to the Program

This interdisciplinary major is designed for students who want a breadth of background necessary to participate effectively in decision making for public affairs and the practical training necessary to deal with social problems as public issues. Admission requires a 2.00 grade-point average and approval by the undergraduate academic adviser. All arrangements for the major should be made no later than the first semester of the junior year.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.

- English and mathematics competency.

(See "Undergraduate Study" for details.)

Major Requirements

- A total of fifty-seven semester hours with grades of C or better.

Course Requirements

- 17.200 Writing for Mass Communication (3)
- 17.310 Public Speaking (3)
- 19.101 Introduction to Economics I (Macro) /S (3)
- 19.102 Introduction to Economics II (Micro) /S (3)
- 53.120 Introduction to American Politics /S (3–4)
- 53.391 Internship (6)
- 53.490 Independent Study Project in Government (3) or CLEG Seminar (3)
- 73.104 Introduction to Systems of Justice /S (3)

- 53.200 Great Issues of Political Thought /A, S (3)
  or
  53.300 Modern Political Thought (3)

- 53.250 Law and the Political System /S (3)
  or
  53.351 Civil Rights and Liberties (3)

- Twenty-four additional semester hours, including twelve hours at the 300 level or above, selected from a list of approved courses in communication, legal institutions, economics, and government. The list of approved courses is available in the School of Government and Public Administration Undergraduate Office. Students must choose these twenty-four additional hours so that their total program includes nine hours from each CLEG area.

Washington Semester Program in American National Government

Admission to the Program

This special, one-semester program draws on the unique environment of Washington to offer students a full program of seminars with decision makers and others involved in the policy process; an internship in a governmental office or with an interest group; and either a research project or a course elected from regular university offerings. The program is open to students of The American University and students from institutions across the country. Requirements for admission to the program are (1) nomination by a Washington Semester faculty representative; (2) at least a 2.50 grade-point average on a 4.00 scale; (3) at least one course or equivalent in American national government; and (4) at least second-semester sophomore standing at the time of participation. Selection is competitive.

This program does not lead to a degree. Students earn undergraduate credit that may be applied toward the requirements for a bachelor's degree.

Course Requirements

American National Government

- 56.410 Washington Semester in American Government and Politics Seminar I (4)
- 56.411 Washington Semester in American Government and Politics Seminar II (4)
- 56.412 Washington Semester in American Government and Politics Research Project (4)

- 56.416 Washington Semester in American Government and Politics Internship (4)
  or

  a regular American University course from among evening offerings.

Washington Summer Seminar

Admission to the Program

This special, two-week summer program introduces high-school students to government in action in Washington, D.C., through seminars with practitioners in public affairs, with those seeking to influence policy, and with faculty who observe the political process. A student must be nominated by a guidance counselor or social studies teacher and have a C or better average.

This program does not lead to a degree. Students earn two semester hours of undergraduate credit that may be applied toward the requirements for an undergraduate degree.

Course Requirements

- 56.100 Washington Summer Seminar (2)

Special Opportunities

Students attend cultural performances in Washington as part of the program.

Semester in London

Admission to the Program

The program is open by competition to juniors and seniors. The minimum grade-point average for consideration is 2.75 on a 4.00 scale. Academic excellence and an ability to adapt to another culture are essential.

This program does not lead to a degree. Students receive sixteen semester hours of undergraduate credit that may be applied toward the requirements for an undergraduate degree.

Special Opportunities

Students live with a British family for the semester. Ample time is provided for independent travel, and excursions to Stratford-upon-Avon and Brussels are included. Students enjoy library and student union privileges at the University of London.

Minor in Political Science

The minor in Political Science is intended for those who prefer to pursue another major but wish to increase their knowledge of an area of activity that is a part of our lives at

every turn. Through this minor the student has a greater potential to achieve enlightened citizenship.

Requirements

- 53.120 Introduction to American Politics /S (3–4)
- Three semester hours in political theory at the 200/300 level.
- Fifteen semester hours in other SGPA courses, including at least nine semester hours at the 300 level and at least three semester hours at the 400/500 level.

Minor in Public Administration

The minor in Public Administration is designed for students interested in pursuing careers in the public or not-for-profit sector. It allows students to major in the social sciences or humanities while specializing in an academic area that is more career focused. Students interested in this minor are required to take three designated courses plus four electives for a total of twenty-one semester hours.

Requirements

- 53.120 Introduction to American Politics /S (3)
- 54.260 Administrative Politics /S (3)
- 54.343 Governmental Management (3)
- Twelve additional hours from the following:
  - 54.345 The Law of Public Administration (3)
  - 54.444 Governmental Budgeting (3)
  - 54.445 Managing Human Resources in the Public Sector (3)
  - 10.353 Organizational Behavior (3)
  - 53.240 Metropolitan Politics (3)
  - 53.560 Intergovernmental Relations (3)

  Courses related to the field of public administration in the 53.xxx series with the approval of the director of public administration.

B.A./M.A. in Political Science and B.A./M.P.A. in Public Administration

Admission to the Program

Students are admitted to the undergraduate major program of their choice according to the admission requirements of that program. Admission to the combined B.A./M.P.A. program requires junior standing, a 3.00 cumulative grade-point average, a completed application form (forms are available from the School of Government and Public Administration Undergraduate Office), a written faculty recommendation, an essay on the student's interests and abilities in political science or public administration, and an interview with the School of Government and Public Administration director of undergraduate programs.

This program enables qualified undergraduates to earn, in a continuous plan of five years of study, both a bachelor's degree with a major in any related discipline and a master's degree with a major in political science or public administration. This is accomplished by allowing certain specified graduate-level courses to be applied to the requirements of both degrees.

Course Requirements (Senior Year)

- The course requirements for either the M.A. in Political Science or the M.P.A.

  B.A./M.A.:
- 53.650 Political Analysis (3) (applicable to both degrees)

  B.A./M.P.A.:
- 54.610 Public Management (3) (applicable to both degrees)
- Three courses specified by School of Government and Public Administration program advisers as applicable to both degrees.

Recommendations

Recommended preparatory courses for the B.A./M.A. program include courses in economics and statistics.

Recommended preparatory courses for the B.A./M.P.A. program include courses in economics, statistics, computer science, accounting, writing and other communication skills, undergraduate internships, and related work experience.

Note: Acceptance and participation in the B.A./M.A. or B.A./M.P.A. program does not automatically guarantee acceptance into the respective graduate program. Students must apply for admission to the graduate program through the Office of Admissions in the last undergraduate semester. If a 3.00 cumulative grade-point average is maintained, a student can expect to be admitted to the master's program.

M.A. in Political Science

Admission to the Program

The minimum requirement for admission to the M.A. program is a B average in the last sixty semester hours of undergraduate work. Provisional admission may be granted on a lower academic record and requires that a B average or better be attained in the first twelve semester hours of graduate work. Students who do not qualify for full or provisional admission may be asked, after consultation with the Graduate Office, to take twelve semester hours of graduate-level work in nondegree status before being considered for admission. The Graduate Record Examination is required for full-time applicants who wish to be considered for departmental honor awards.

Fields

American Politics and Comparative Politics.

Degree and Major Requirements

- A total of thirty-three semester hours of approved graduate work.
- A written four-hour comprehensive examination in the major field.

The examination may be retaken only once. Deadlines for filing for spring, summer, and fall examinations are January 31, April 30, and September 30, respectively.

Course Requirements

American Politics

- 53.610 Introduction to Quantitative Methods in Political Science (3)
- 53.611 Political Research (3)
- 53.650 Political Analysis (3)

- Major field includes fifteen semester hours from the following:
  - 53.651 The Legislative Process (3)
  - 53.652 The Presidency and the Executive Branch (3)
  - 53.654 Political Behavior (3)
  - 53.540 Political Parties, Interest Groups, and Lobbying (3)
  - 53.656 Voting Behavior, Elections, and Campaigns (3)

- Second field includes nine semester hours selected from a variety of areas in political science or from other disciplines.

Comparative Politics

- 53.610 Introduction to Quantitative Methods in Political Science (3)
- 53.611 Political Research (3)
- 53.650 Political Analysis (3)

- One political theory course.

- Major field includes six semester hours from the following:
  - 53.630 Comparative Politics of Developed Nations (3)
  - 53.631 Comparative Politics of Developing Nations (3)

  Six additional hours drawn from the comparative politics offerings.

- Second field includes four courses (twelve hours) in a logically related area in political science or from other disciplines in the university.

An internship may be substituted for up to three hours of the second-field courses. If the internship option is selected, students must register for 53.692 Cooperative Education (3).

Master of Public Administration (M.P.A.)

Admission to the Program

The minimum requirement for admission to the M.P.A. program is a B average in the last sixty semester hours of undergraduate work. Provisional admission may be granted and requires that a B or better average be attained in the first twelve semester hours of graduate work. The Graduate Record Examination is required for full-time applicants who wish to be considered for a departmental honors award.

Degree and Major Requirements

- A total of forty-two semester hours of approved graduate work.

  Students with the requisite professional experience may be exempted from six semester hours of the total requirement. (See Special Opportunities below.)

- One written comprehensive examination, lasting four and a half hours, must be passed by each student. The examination tests knowledge of the core courses listed below. Deadlines for filing for spring, summer, and fall examinations are January 31, April 30, and September 30, respectively.

- The research requirement is satisfied by completing two of the following courses with grades of B or better:
  - 54.601 Methods of Problem Solving I (3)
  - 54.602 Methods of Problem Solving II (3)
  - 54.610 Public Management (3)
  - 54.612 Politics of Administration (3)
  - 54.630 Public Managerial Economics (3)

Course Requirements

Management core (nine courses):

- 54.601 Methods of Problem Solving I (3)
- 54.602 Methods of Problem Solving II (3)
- 54.610 Public Management (3)
- 54.612 Politics of Administration (3)
- 54.616 Legal Issues in Public Administration (3)
- 54.630 Public Managerial Economics (3)
- 54.633 Public Financial Management (3)
- 54.650 Leadership for Public Management (3)
- 54.665 Public Personnel Administration (3)

  All M.P.A. students are required to attain basic competency in the following areas: public management; methods of problem solving in public administration; information systems and computer applications in management decision making; microeconomics applied to the public sector; policy making, politics, and administration; legal aspects of public administration; leadership, interpersonal relations and the behavioral sciences; and public financial management.

- Management skill (one course): Students select at least one course designed to increase practical skills needed by public managers.

- Area of concentration (three courses): Students take at least three courses in a single area of concentration or subfield within it. The three courses must complement one another and lead to an advanced level of study. Any remaining courses necessary to complete the M.P.A. program are selected from advanced offerings in supporting fields. Areas: policy analysis; urban affairs; public financial management; international administration; arts management; management information systems; human resources and organization development; court management; and procurement and grants management.

- Internship: Pre-service students about to begin their career participate in a supervised internship. An internship seminar, equal in credit to one course, relates on-the-job experience to current political and administrative issues. The formal internship program is optional for students already employed.

Special Opportunities

A student who has performed successfully for several years as a manager in a supervisory role before admission to the M.P.A. program may apply to the director of the program to have the total program reduced by up to six semester hours. Such application must make reference to a number of areas in which the student has acquired basic competency. Credit earned as part of an internship program would not count toward the total course requirement for students availing themselves of this provision. Students seeking to use both the significant managerial experience clause and the transfer credit allowance are limited to a total of nine semester hours.

The Key Executive Program is a twenty-month course of study that offers participants the perspectives and competencies necessary for effective performance in high-level executive and managerial work. The curriculum includes the major activity areas used in certifying candidates for career positions in the Senior Executive Service.

The program includes a year-long research practicum. Under the guidance of individual faculty advisers, participants apply the principles taught in the program to administrative or policy issues and problems within their own agencies.

Classes are held on Fridays and Saturdays. Participants continue to work at their jobs while completing their studies. Upon completion of this thirty-six-semester-hour graduate program, participants are awarded the Master of Public Administration degree.

The program is oriented to civilian personnel in the federal government, military or other uniformed personnel, and state and local officials.

Admission to the Key Executive Program is competitive and restricted to persons who exercise significant responsibilities for program management or policy development and are preparing themselves for positions of greater responsibility. Classes consist of GS14s or above (or the equivalent). A bachelor's degree is required. Deadline for application for 1987-1988 is May 15, 1987.

Center for Public Financial Management

Director Thomas J. O'Connor

The Master of Public Financial Management program is designed for government employees who aspire to positions which require a more extensive knowledge of public financial management. Sponsored by the College of Public and International Affairs and with the assistance of the Kogod College of Business Administration, this program addresses the needs of government employees at all levels—federal, state, and local—and employees in the not-for-profit sector. It provides students with an enhanced capability to deal with the complex problems of today's government and increased technical capability in problem solving, and exposure to the latest methods for better program evaluation and improved financial control.

By emphasizing the practical applications of concepts and principles in core courses, the program helps students develop the ability to deal with complex problems. Each core course is tailored or newly designed to be responsive to the needs and objectives of the governmental organizations represented by the students in each class. The course, Projects in Managerial Problem Solving, provides a laboratory for students to identify, analyze, and help resolve the practical problems of their organizations.

Students are usually full-time employees who attend classes at night for six consecutive semesters including two summers. Arrangements can be made, however, for students to attend classes full-time during the day. The resources of the College of Public and International Affairs, especially the School of Government and Public Administration and the Center for Technology and Administration, and of the Kogod College of Business Administration are used in curriculum design and staffing. In addition to teaching courses, the faculty serve as advisers on the managerial problem-solving projects.

Master of Public Financial Management (M.P.F.M.)

Admission to the Program

The minimum requirement for admission to the M.P.F.M. program is a bachelor's degree and a B average (3.0) in the last sixty semester hours of undergraduate work. Prior graduate course work and professional work experience are also considered in admission. Students who have less than the minimum requirements for admission may be admitted on a provisional basis pending full graduate status upon the successful completion of twelve semester hours of graduate-level course work with a minimum of a B (3.0) or better average.

Degree and Major Requirements

- A total of forty-two semester hours of approved graduate course work.
- Projects: Each student presents an oral and written report on the work completed in connection with the Projects in Managerial Problem Solving. The student will be expected to know the conceptual basis of the problem and to demonstrate a capacity to apply knowledge and to perform management functions effectively.

Course Requirements

- 28.604 Public Management (3)
- 28.606 Managerial Macroeconomics (3)
- 28.608 Accounting and Budgeting for Public Managers (3)
- 28.610 Public Finance (3)
- 28.612 Managerial Microeconomics (3)
- 28.614 Human Behavior and Leadership for Public Managers (3)
- 28.616 Quantitative Methods I (Probability and Statistics) (3)
- 28.617 Quantitative Methods II (Scientific Decision-Making) (3)
- 28.620 Public Program Evaluation (3)
- 28.621 Research Methods (3)

- 28.622 Project in Managerial Problem Solving (3)
- 28.623 Computer Applications for Public Managers (3)

- Two option courses are selected by students and their sponsoring organizations in such fields as governmental budgeting, auditing, accounting, procurement and government contracting, personnel management, political dynamics, management information systems, and management science. Other fields of concentration are also available.

Special Opportunities

With advance notice, the Center for Public Financial Management will develop and offer specialized courses for one or a group of federal agencies or local governments.

All core courses and the Projects in Managerial Problem Solving emphasize applications and are developed by the faculty member in advance to be responsive to the needs, problems, and objectives of the students and their employer organizations.

Note Also: See the College of Public and International Affairs and Kogod College of Business Administration sections in this publication for courses that may be taken for credit toward the Master of Public Financial Management.

Graduate Certificate in Public Financial Management

This certificate program is designed for government employees interested in expanding their knowledge and practical skills in public financial management. The main objective of the program is to provide the student with a working knowledge of basic financial management techniques which are relevant to public sector financial operations.

The specialized courses in this certificate program are updated and redesigned each semester to comply with the particular needs established by agency participants. Before each semester begins, course instructors conduct a review of the agency's programs and financial operations to determine the most appropriate application of course subject matter to the agency's needs and objectives.

The program can be completed in ten months. Students who successfully complete the certificate program may automatically apply these courses toward the Master's degree program in Public Financial Management if they choose.

Admission to the Program

Admission is open to students with a bachelor's degree. Professional work experience is also considered in admission. Students who wish to apply course work in the certificate programs as advance standing in the Master of Public Financial Management Program must have attained at least a B (3.0) in each course completed.

Course Requirements

- 28.604 Public Management (3)
- 28.608 Accounting and Budgeting for Public Managers (3)
- 28.610 Public Finance (3)
- 28.624 Procurement and Federal Assistance (3)
- 28.616 Quantitative Methods I (Probability and Statistics) (3)

With approval of the Center for Financial Management, course substitutions may be made in this certificate program.

Master of Science in Human Resources (M.S.H.R.)

The M.S. in Human Resources is a specialized course of study designed to educate students for specific professional roles in organizations. The courses are usually offered on weekends. Courses are tailored so as to provide advanced theory and technology in human resource development and human resource management.

Admission to the Program

A bachelor's degree in any area, with a cumulative grade-point average of at least 3.0 (out of 4.0) in the last sixty hours of course work. Exceptions may be made for highly qualified applicants with many years of service and a record of exceptional service. Such candidates are admitted provisionally, and after completing four courses with a grade-point average of 3.0 (out of 4.0) or better, may be advanced to full standing.

At present, admission is limited to applicants who possess two years of significant managerial experience and professional responsibility in the areas of employee development, organization development, employee counseling, personnel management, or other areas related to the practice of human resource development and human resource management.

Majors

The Master of Science in Human Resources may be taken with a major in Human Resource Development (HRD) or Human Resource Management (HRM). The Human Resource Development major is designed for individuals pursuing careers in training and executive development, organizational research and consultation, career development, affirmative action, or the management of HRD functions. The major in Human Resource Management emphasizes the application of applied behavioral science to the effective management of people. It enhances the capacity of managers to introduce processes of planning and decision-making designed to improve worker satisfaction, commitment, and productivity.

Degree and Major Requirements

- A total of forty-two semester hours of approved graduate work.

  According to the admissions criteria, students who possess the requisite professional experience will be exempt from the six-semester-hour internship/cooperative education requirement and will need to complete only thirty-six semester hours for the degree. Students not eligible for this exemption must take a six-hour internship (54.692) or cooperative education assignment (54.692).

- 54.641 Methods of Problem Solving for Human Resource Development (3) (with a grade of B or better) as a tool of research.

- A written comprehensive examination covering material in the major field of study.
- Research requirement:

  Human Resource Development: Two research courses, 54.641 Methods of Problem Solving for Human Resources Development (3) and 54.674 Practicum In-Service Project (3), and a major research paper.

  The research must focus on an organizational problem in Human Resource Development, and use techniques (qualitative or quantitative) in organizational diagnosis, intervention and change, and evaluation. Students work under the guidance of a faculty mentor.

  Human Resource Management: Two research courses, 54.641 Methods of Problem Solving for Human Resources Development and 54.674 Practicum In-Service Project or 54.646 Consultation Skills for Human Resource Development, and a major research paper or organizational case study.

  If the practicum is selected, the research paper must focus on an organizational problem in Human Resource Management, and use techniques (qualitative or quantitative) in organizational diagnosis, intervention and change, and evaluation. If Consultation Skills is selected, the student must write an organizational case study based on research completed with the client organization. The case study must use appropriate theory, discuss research methods and results, and analyze and evaluate both the organizational problems and the intervention strategies chosen.
- As a prerequisite to a major in Human Resource Development, students must take a Human Interaction Laboratory, Management Work Conference, or Institute on Group and Personal Interaction. Students must also complete a Research/Consultation Practicum in which they design, execute, and evaluate an organization development project using advanced theories in the field.

Students majoring in Human Resource Management are normally expected to take a Human Interaction Laboratory and a Practicum. However, the director of the Human Resource Development program can replace these requirements with other courses when an evaluation of student background indicates that the needs addressed by these courses have already been fulfilled.

Course Requirements

Core Courses

- 54.640 Leadership for Human Resource Development (3)
- 54.641 Methods of Problem Solving for Human Resource Development (3)
- 54.642 Organization Dynamics for Human Resource Development (3)
- 54.643 Financial Management for Human Resource Development (3)

  or

  54.644 Managerial Economics for Human Resource Development (3)

Human Resource Management

- 54.645 Performance Appraisal and Productivity for Human Resource Development (3)
- 54.646 Consultation Skills for Human Resource Development (3)
- 54.647 Career Development for Human Resource Development (3)
- Elective courses are selected from the following:
  - 54.648 Training Design and Facilitation for Human Resource Development (3)
  - 54.674 Practicum (3)
  - 54.675 Organizational Planning and Control for Human Resource Development (3)
  - 54.676 Politics of Administration for Human Resource Development (3)
  - 54.677 Introduction to Organizational Development for Human Resource Development (3)
  - 54.678 Legal Issues in Public Administration for Human Resource Development (3)
  - 54.649 Topics in Human Resource Development (3) (special sections)

    The special sections of 54.649 are chosen from advanced offerings in the Governmental Management and Human Resources and Organizational Development fields as specified each semester by the department: Building Effective Work Teams for Human Resource Development; Conflict Resolution for Human Resource Development; Skill Module for Human Resource Development; Institute on Group and Personal Interaction for Human Resource Management; and International Human Resource Development. Other university and consortium courses taken as electives must be approved by the director, Human Resource Development.

Human Resource Development

- 54.646 Consultation Skills for Human Resource Development (3)
- 54.648 Training Design and Facilitation for Human Resource Development (3)
- 54.674 Practicum (3)
- 54.677 Introduction to Organizational Development for Human Resource Development (3)
- 54.678 Legal Issues in Public Administration for Human Resource Development (3)
- Elective courses selected from the following:
  - 54.675 Organizational Planning and Control for Human Resource Development (3)
  - 54.676 Politics of Administration for Human Resource Development (3)
  - 54.679 Studies in Human Resource Development (3) (special sections)

    The special sections of 54.679 are to be chosen from advanced offerings in the Governmental Management and Human Resources and Organizational Development fields as specified each semester by the department: Organization Diagnosis and Intervention for Human Resource Development; Personnel Administration for Human Resource Development; and Labor Relations for Human Resource Development. Other university and consortium courses taken as electives must be approved by the director, Human Resource Development.

Special Master's Degree Programs

In conjunction with the M.P.A. program outlined above, the School of Government and Public Administration offers or participates in a number of special master's degree programs for persons who have already begun their careers. Each program is tailored to the needs of a specific organization or the specific students participating in it, although the degree requirements are based on the M.P.A. requirements outlined above. Participants in these special programs are generally nominated or sponsored by the organizations they work for.

The special degree programs currently available include:

The Key Executive Program, designed to meet the executive development needs of senior government managers. Begun in 1975, it is designed for GS-14s and above (or equivalent) who have significant responsibilities for program management or policy development and are preparing themselves for positions of greater responsibility. They spend twenty months studying the skills, knowledge, and values needed by top-level public executives.

The Center for Public Financial Management helps officials to broaden both their financial and public management skills. It focuses on the needs of government employees at all levels—federal, state, and local—and employees in the not-for-profit sector.

The Human Resource Development Program (see above), administered jointly by SGPA and the NTL Institute for Applied Behavioral Science and designed for persons who want to improve their skill in the field of human resource management and organizational change.

The School of Government and Public Administration also offers many institutes and seminars on special topics to managers in public, private, and nonprofit organizations.

Ph.D. in Political Science and Ph.D. in Public Administration

Admission to the Program

Applicants are considered and admitted only for the fall semester each year. February 1 is the deadline for application for admission. All applicants must submit scores from the verbal and quantitative sections of the Graduate Record Examination. The normal minimum for consideration is a 3.20 grade-point average in all previous academic work. Preference will be given to applicants for full-time study, although highly qualified students may be admitted for part-time study.

Major Fields

American Politics, Policy Analysis, and Public Administration.

Degree and Major Requirements

- A total of seventy-two hours of approved graduate work is required for students entering the program with a bachelor's degree; a minimum of fifty-four hours is required of students who have completed an approved master's degree.

- Advancement to candidacy is accomplished by successfully completing a written qualifying examination on the major area at the end of the second semester of study.

- Students take two written comprehensive examinations in two of the three major areas of study and master the subject matter of the third through formal course work. Following completion of the written examinations, all students take an oral examination on their entire program of study before a committee of faculty members.

  Students taking the degree in public administration take written comprehensives in public administration and one of the two remaining areas.

  Students taking the degree in political science take written comprehensives in either policy analysis or American politics and in any one of the remaining areas.

- The Ph.D. is fundamentally a research degree. Understanding scientific inquiry and correctly using research techniques require extensive preparation. The faculty has designed three courses to help doctoral students comprehend the nature of science and master tools of research. All students in the program take these courses: 53.612, 53.613, and 53.614.

- Each student selects a research specialization in which he or she will complete an original project under the direction of program faculty and write a dissertation. Students can choose research projects within one of the three major areas or they can select a research specialization from one of the other graduate fields within the college. Comparative politics is specifically available as a research specialization at the dissertation level.

  Each student prepares a research proposal for the dissertation project. As part of this process, each student must publicly defend the research proposal before the dissertation committee and other interested faculty. The committee and the coordinator of the doctoral program (acting for the dean) must approve the defense and the research proposal. The topic covered by the proposal must be related to ongoing research or publications of the supervising faculty.

  As work on the dissertation project progresses, each student registers for a total of twelve semester hours of directed study, including the research seminar. Substantive course work may be used as part of this requirement where it contributes directly to the research specialization and is specifically recommended by the dissertation chair.

  Upon completion of the research and the written dissertation, the candidate submits his or her manuscript to the advisory committee for review. If the committee members approve the manuscript, the candidate must complete an oral defense of the dissertation and the general field in which it lies before the committee and other interested faculty. The committee determines conclusively at this point whether the the dissertation and examination are acceptable.

  The dissertation must consist of high quality original research directly relevant to the student's doctoral program. A dissertation proposal may be rejected for the following reasons: the topic does not address a major research issue in political science or public administration, the research design is inadequate, the methodology is inappropriate, or because no full-time faculty member in the School of Government and Public Administration is academically competent or available to supervise the

project. If the candidate fails to present an acceptable dissertation or dissertation proposal within the time limit allowed for completing the doctorate, or does not successfully complete the oral defense, his or her candidacy may be terminated at that time.

Course Requirements

- Four courses in the major field. Four courses in the second major field. Three courses in the third area of study: 53.710 Seminar in American Politics (3), 53.720 Seminar in Policy Analysis (3), 54.710 Seminar in Public Administration (3).
- Three courses in research design and methodology: 53.612 Conduct of Inquiry I (3), 53.613 Conduct of Inquiry II (3), 53.614 Political and Administrative Behavior (3).
- Twelve credit hours on the dissertation, including the research seminar: 53.799 Doctoral Dissertation Seminar in Political Science.

Graduate Certificate in Governmental Management

Admission to the Program

Open to students with a bachelor's degree.

Course requirements

- 54.601 Methods of Problem Solving I (3)
- 54.610 Public Management (3)
- 54.616 Legal Issues in Public Administration (3)
- 54.633 Public Financial Management (3)
- 54.650 Leadership for Public Management (3)

Graduate Certificate in Public Management

Admission to the Program

Open to students with a bachelor's degree.

Course Requirements

- One of the following:
  54.610 Public Management (3)
  54.611 Organization Planning and Control (3)
  54.612 Politics of Administration (3)
- One of the following:
  54.601 Methods of Problem Solving I (3)
  54.604 Public Program Evaluation (3)
  54.630 Public Managerial Economics (3)
  55.630 Computer Applications for Managers (3)
- One of the following:
  54.650 Leadership for Public Management (3)
  54.618 Management Workshop (3)
  54.652 Building Effective Work Teams (3)
  54.665 Public Personnel Administration (3)
- Two courses either from the above areas or from the following:
  54.616 Legal Issues in Public Administration (3)
  54.632 Governmental Budgeting (3)
  55.513 Change and the Managerial Process (3)

School of International Service

Dean Louis W. Goodman

Full-Time Faculty

Professor G.M. Bonham, C. Bryant, D.L. Clarke, S.D. Cohen, W.C. Cromwell, H.E. Davis (University Emeritus), J.J. Finan, R.H. Gabriel (University Emeritus), L.W. Goodman, R.W. Gregg, E.S. Griffith (University Emeritus), G.L. Harris (Emeritus), L.D. Howell, W.G. Hunsberger (Emeritus), M.D. Irish (Emerita), K.P. Landon (Emeritus), M.F. Lindsay (Emeritus), L.L. Lubrano, V. Medish, A.D. Mott, H. Mowlana, W.C. Olson, N.G. Onuf, F.J. Piotrow, D.D. Randall (Emeritus), J.M. Richardson, A.A. Said, S.L. Sharp (University Emeritus), M. Struelens, A. Suhrke, A.R. Taylor, B.B. Tyson, A.L. Vilakazi (Emeritus), L.W. Wadsworth, M.P. Walker, G. Weaver, L.C. Wilson

Associate Professor S.H. Arnold, P. Brenner, S.I. Levine, M. Ottaway

Assistant Professor F. Cheru, K. Gold, D. Hirschmann, L. Miller, G. Porter, G.I. Scarborough, L. Schwartz, W. Wien, Y.H. Zoubir

Research Faculty

Visiting Research Professor, Simón Bolívar Distinguished Lecturer in Inter-American Relations Julio César Turbay Ayala

Research Professor T. Christodoulidis (Visiting), S. Muni (Visiting)

Research Associate Professor J. Wilkowski

Research Assistant Professor A. Brumberg (Visiting)

Visiting Professor Y. Ibish, I. Tinker

The School of International Service offers programs and concentrations at undergraduate, master's, and doctoral levels in several major aspects of international studies. Fields of study at the school include international relations, international law and organization, international communication, international development, United States foreign policy, and the following regional international systems: Latin America,

Middle East and North Africa, Western Europe, East and Southeast Asia, USSR, and Africa. The school encourages graduate students, in consultation with a faculty adviser, to select fields offered by other teaching units or to petition for a special field reflecting the student's particular needs and interests.

The multidisciplinary approach of the school draws on the faculty resources of the entire university, including specialists in anthropology, business administration, economics, foreign languages, history, justice, literature, philosophy and religion, and political science. In this effort to integrate the several disciplines contributing to international studies, the faculty of The American University is augmented by the faculty resources of the Consortium of Universities of the Washington Metropolitan Area.

Among the special features of the School of International Service is the opportunity for independent study projects, cooperative education programs, and internships making use of the resources of the Washington area. The school serves as a focal point for the university's interdisciplinary program in Russian Studies. Faculty concern for world human needs, human rights, and international development is reflected in the hospitable environment found at the school for the study of pressing human issues in a global context. Further information on these special features is available from the dean of the school.

Center for Advanced Studies of the Americas

The Center for Advanced Studies of the Americas, offered through the Consortium of Universities, provides students in inter-American studies with guidance on courses offered by participating universities, internships in international organizations located in the Washington area, and opportunities to participate in visiting-scholar and diplomatic programs.

B.A. in International Studies

Admission to the Program

Candidates for admission to the school must present evidence of excellent personal and academic qualifications. To be considered for freshman admission, an applicant should have earned at least a B average in secondary school. Cultural factors are considered in evaluating transcripts and examination results. Other factors taken into account are leadership qualities, character, and personal interests. Students from other regionally accredited collegiate institutions, and students in other programs at The American University who have completed the freshman year, should maintain a cumulative average of B to be considered for transfer to the school.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of sixty-three semester hours with grades of C or better.

Course Requirements

- 19.101 Introduction to Economics I (Macro) /S (3)
- 19.102 Introduction to Economics II (Micro) /S (3)
- 33.151 Western Tradition I (3)
- 33.152 Western Tradition II (3)
- 33.202 World Politics /S (3)

- Twelve semester hours of a modern language through the intensive elementary or the nonintensive intermediate level, depending on the language (may be waived by examination).

- Two courses in an area or areas other than the United States and Western Europe from offerings of SIS or other teaching units.

  For details consult SIS undergraduate counselor.

- One of the following courses in political science:
  - 33.100 Political Concepts (3)
  - 53.120 Introduction to American Politics /S (3–4)
  - 53.200 Great Issues of Political Thought /A, S (3)
  - 53.230 Comparative Politics: Change, Leadership, Participation /S (3)
  - 53.300 Modern Political Thought (3)

- One of the following courses in U.S. history or culture:
  - 02.202 American Dream/American Life /A, S (3)
  - 29.207 History of the United States I /A, S (3)
  - 29.208 History of the United States II /A, S (3)
  - 29.366 Twentieth-Century America /A (3)

- One of the following courses in U.S. foreign policy or diplomatic history:
  - 33.381 Foreign Policies of the Great Powers /S (3)
  - 33.382 The Analysis of United States Foreign Policy /S (3)
  - 33.385 United States Foreign Economic Policy /S (3)
  - 33.386 Comparative Foreign Policy (3)
  - 33.389 Selected Topics in Policy Analysis (3)
  - 33.583 United States in World Affairs (3)
  - 29.362 World War II: The American Experience (3)
  - 29.363 Other Wars: Cold, Korean, and Vietnam (3)

- One of the following courses in quantitative methodology:
  - 10.354 Business Applications of Computers /N (3)
  - 19.310 Introduction to Econometrics (3)
  - 29.370 Quantification in History (3)
  - 33.307 Quantitative Approaches to International Politics (3)
  - 42.202 Basic Statistics /N (4)
  - 53.310 Introduction to Political Research (3)

- Eighteen semester hours in two upper-level fields of concentration.

  Nine semester hours each in two groups of courses related to specific themes. These fields may be selected from comparative politics and policy analysis, interna-

tional communication, international relations, the third world and cross-cultural development, United States foreign policy (political, economic, and national security dimensions), advanced quantitative methods in international relations, and the following areas of regional concentration: Africa, Asia (East, South, and Southeast), Western Europe, Latin America, the Middle East and North Africa, and Russia and the Soviet Union. A maximum of six hours of complementary work in the social sciences offered by other teaching units may be credited toward fulfillment of this requirement. For complete lists of recommended courses in the fields, consult the SIS undergraduate counselor.

Special Opportunities

SIS honors program for juniors and seniors, cooperative education programs, internships (including a limited number of U.S. State Department internships), Pan Ethnon, Foreign Policy Semester, *Envoy*, *The Diplomatic Pouch*.

B.A. in Language and Area Studies

Students receive a B.A. in a language and area study from the College of Arts and Sciences or the School of International Service.

Admission to the Program

Freshmen and transfer students are admitted to the Department of Language and Foreign Studies in the College of Arts and Sciences or to the School of International Service. They must achieve a 3.00 or better cumulative average and determine their language and area before they are formally recognized as majors.

Majors

French/West European Area Studies; German/West European Area Studies; Russian/USSR Area Studies; Spanish/Latin American Area Studies.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of forty-two semester hours with grades of C or better.

  Eighteen of the total semester hours in the language of the major at the 300 level or above.

  Twenty-four of the total semester hours in the area of specialization fulfilled according to requirements for the College of Arts and Sciences degree or the the School of International Service degree.

Course Requirements

French

- 37.324 French Intensive Conversation and Composition I /A (6) (or substitute if warranted by language proficiency)
- 37.325 French Intensive Conversation and Composition II /A (6) (or substitute if warranted by language proficiency)
- 37.420 French Civilization I (3)
- 37.421 French Civilization II (3)

German

- 37.332 German Conversation and Composition I /A (3) (or substitute if warranted by language proficiency)
- 37.333 German Conversation and Composition II /A (3) (or substitute if warranted by language proficiency)
- 37.338 German Civilization I (3)
- 37.339 German Civilization II (3)
- Additional six semester hours in German as advised.

Spanish

- 37.354 Spanish Intensive Conversation and Composition I /A (6) (or substitute if warranted by language proficiency)
- 37.355 Spanish Intensive Conversation and Composition II /A (6) (or substitute if warranted by language proficiency)
- 37.450 Spanish Civilization I: Spain (3)
- 37.451 Spanish Civilization II: Latin America (3)

Russian

- Courses chosen from regular Russian offerings in consultation with adviser.

College of Arts and Sciences

- Twenty-four semester hours in area-related courses in anthropology, economics, government, history, international relations, language and foreign studies (beyond the eighteen-semester-hour requirement), literature, interdisciplinary studies, and the general education complement. Courses are chosen in consultation with the adviser.

School of International Service

- Twenty-four semester hours of course work specific to the major area of which at least six semester hours must be in SIS.

  Other course work may be taken in anthropology, economics, government, history, language and foreign studies (beyond the eighteen-semester-hour requirement), literature, interdisciplinary studies, and the general education complement.

  Note: SIS-degree candidates must include in their program a minimum of eighteen semester hours of SIS course work.

Foreign Policy Semester

Admission to the Program

Open to students from the Washington Semester member institutions as part of the Washington Semester program and to juniors and seniors in good standing at The American University. Recommended prerequisite for the Foreign Policy Semester program is at least one course in government or international relations and one in economics.

This program does not lead to a degree. Students earn undergraduate credit that may be applied toward the requirements for a bachelor's degree.

Course Requirements

- 33.491 Special Seminars in International Studies (4)
- 33.492 Special Seminars in International Studies (4)
- 33.493 Special Seminars in International Studies (4)
- 33.494 Special Seminars in International Studies (4)

or a regular course from among the evening offerings at The American University.

Special Opportunities

Internships, Pan Ethnon, *Envoy*, *The Diplomatic Pouch* and off-the-record seminars with foreign policy experts and career officials.

Minor in International Studies

Requirements

- 33.202 World Politics /S (3)
- One course from the following:
  - 33.381 Foreign Policies of the Great Powers /S (3)
  - 33.382 The Analysis of United States Foreign Policy /S (3)
  - 33.384 American Defense and Security Policy (3)
  - 33.385 United States Foreign Economic Policy /S (3)
  - 33.386 Comparative Foreign Policy (3)
  - 33.389 Selected Topics in Policy Analysis (3)
- One course from the following:
  - 33.258 Contemporary Russia /S (3)
  - 33.259 Contemporary East Europe (3)
  - 33.263 Contemporary South Asia (3)
  - 33.264 Contemporary Middle East /S (3)
  - 33.265 Contemporary Africa /S (3)
  - 33.276 Contemporary Latin America /S (3)
  - 33.355 The Relations of West European Nations /S (3)
  - 33.359 Soviet Union in World Affairs (3)
  - 33.361 Contemporary East Asia (3)
  - 33.366 Asian Power Rivalries (3)
- One course from the following:
  - 33.301 Theories of International Politics (3)
  - 33.307 Quantitative Approaches to International Politics (3)
  - 33.321 International Law (3)
  - 33.325 International Organization (3)
  - 33.340 Foundations of International Communication (3)
  - 33.349 Selected Topics in International Communication (3)
- Nine additional semester hours in SIS courses.

M.A. in International Affairs

Admission to the Program

Applicants must have a bachelor's degree with a B average and at least twenty-four semester hours of social science courses related to international studies. Students who do not meet these minimum requirements will be assigned additional course work specified at the time of admission. All applicants whose undergraduate language of instruction was English are required to take the aptitude section of the Graduate Record Examination. International applicants whose first language is not English should refer to "International Student Information" in this publication for the university's TOEFL (Test of English as a Foreign Language) requirement. Cultural factors are considered in evaluating transcripts and examination results. Two letters of reference, evaluating undergraduate performance and suitability for graduate study in international affairs, are required. Students may apply for admission for any term, although fall semester admission is preferred.

Requests for the transfer of a maximum of six graduate semester hours from other institutions will be considered after successful completion of twelve semester hours in the graduate program at The American University. Transfer courses must have been completed within eight years of admission and must be relevant to the degree program.

Degree and Major Requirements

- A total of thirty-six semester hours of approved graduate work.
- Advancement to candidacy on completing twelve hours of graduate course work with a B average at The American University.

  Students qualifying for advancement must have removed all incomplete grades as well as all background deficiencies specified at the time of admission. If a student's average drops below B at the end of eighteen hours or at any time thereafter, the student's candidacy may be terminated.

  When applying for advancement to candidacy, students formally designate their comprehensive examination fields, tools of research, and six-hour research requirement in consultation with faculty advisers. Students who plan to take comprehensive examinations must apply for advancement before the announced deadlines for submitting applications for comprehensive examinations.
- Proficiency in a modern foreign language, statistics, computer methods, or in another approved quantitative field that will serve as a tool of research.

  For the foreign language option, Department of State proficiency standards are applied—a "3-level" transla-

tion proficiency is required for European languages and a "2-level" translation proficiency is required for other languages. Examinations are administered by the Department of Language and Foreign Studies. Verification of language capability may also be certified by successful completion of two graduate-level courses conducted in the language to be certified.

To complete the research tool in statistics, students are required to earn grades of B in 33.600 Introduction to Quantitative International Relations and 53.610 Introduction to Quantitative Methods in Political Science. To complete the research tool in computer methods (SPSS), students are required to earn grades of B in 33.600 and 33.513 Computer Applications in International Relations Research. Students who have taken equivalent courses at another institution may take and complete with a B or better a written equivalency examination given in the most advanced course in either statistics or computer programming.

- Two written comprehensive examinations one in each of two fields formally selected at the time of advancement to candidacy.

  A student may select any two SIS fields or one SIS field and a second approved field from another discipline.

  To be eligible to take a comprehensive examination, a student must have advanced to candidacy and must have maintained at least a B average in all graduate course work. A list of comprehensive fields, examination deadlines, and other information pertaining to comprehensives is available in the *Graduate Handbook* in the office of graduate studies.

- Thesis option: six semester hours and submission of thesis.

  Nonthesis option: one three-hour internship, or cooperative education field experience, and one three-hour research paper; or two three-hour substantial research papers taken in conjunction with a .600-or .700-level course.

Course Requirements

- Six semester hours of course work offered at the .600-or .700-level from either the comprehensive field of international relations or of comparative politics and cross-national studies, or both.
- Twelve semester hours of course work appropriate to each of two comprehensive examination fields.
- 33.797 Master's Thesis Supervision (6) or six hours of nonthesis option credit.

Special Opportunities

Independent study courses, special lectures, and seminars enable students to meet renowned scholars and practitioners of international relations to discuss research and career interests. Internships and cooperative education field experience (paid internships) for graduate credit. A limited number of graduate assistantships and scholarships awarded on the basis of merit.

M.A. in International Communication

Admission to the Program

See admission requirements for the M.A. in International Affairs.

In addition students applying for admission to this program must include a strong major or minor in social and behavioral sciences or communication in their undergraduate backgrounds. For further information, write to the Director, Program in International Communication, School of International Service, The American University, Washington, D.C. 20016.

Degree and Major Requirements

- A total of thirty-six semester hours of approved graduate work.
- Advancement to candidacy. (See requirements for the M.A. in International Affairs.)
- Proficiency in a modern foreign language, statistics, or in another approved quantitative field that will serve as a tool of research. (For details, see requirements for the M.A. in International Affairs.)
- One written comprehensive examination in international communication. (For information on eligibility and procedures, see M.A. in International Affairs.)
- Thesis and nonthesis options: See M.A. in International Affairs.

Course Requirements

- Fifteen semester hours from the following core courses:
  - 33.519 Special Studies in International Politics (3)
  - 33.640 International Communication (3)
  - 33.641 Psychological and Cultural Bases of International Politics (3)
  - 33.642 Cross-Cultural Communication (3)
  - 33.643 Communication and Political Development (3)
  - 33.644 Communication and Social and Economic Development (3)
- Nine hours in a related field.
- Six semester hours in methodology of research or research seminars in international communication from the following:
  - 33.740 Colloquium in International Communication (3)
  - 33.796 Selected Topics (Nonrecurring): Research Seminar in International Communication (3)*
  - 33.600 Introduction to Quantitative International Relations (3)
  - 33.513 Computer Applications in International Relations Research (3)

  *This course is being offered under an experimental number until a permanent course can be established. See the *Schedule of Classes* for descriptions.
- 33.797 Master's Thesis Supervision (6) or six hours of nonthesis option credit.

M.A. in International Development

Admission to the Program

See admission requirements for the M.A. in International Affairs.

Degree and Major Requirements

- A total of thirty-nine semester hours of approved graduate work.
- Advancement to candidacy. (See requirements for the M.A. in International Affairs.)
- Proficiency in a modern foreign language, statistics, or in another approved quantitative field that will serve as a tool of research. (For details, see requirements for the M.A. in International Affairs.)
- One comprehensive examination based on the core courses. (For information on eligibility and procedures, see M.A. in International Affairs.)
- Thesis option: multidisciplinary thesis in the student's area of specialization supervised by two members of the faculty.

  Nonthesis option: See M.A. in International Affairs.

Course Requirements

- 19.560 Economic Development (3)
- 33.637 International Development (3)
- One of the following:
  - 03.544 Topics in Applied Anthropology (3)
  - 33.536 Special Topics in World Human Needs: Micropolitics of Development (3)
- Six semester hours selected from the following:
  - 19.561 Development Planning (3)
  - 33.513 Computer Applications in International Relations Research (3)
  - 33.519 Special Studies in International Politics (3)
  - 33.600 Introduction to Quantitative International Relations (3)
  - 33.638 Selected Topics in International Development Skills (1)
  - 54.604 Public Program Evaluation (3)
  - 54.613 Administration of International Programs (3)
  - 54.614 Development Management (3)

  (Note that other courses may be added to this list; consult international development coordinator.)
- Eighteen hours in elective fields of specialization.

  In consultation with a faculty adviser, students select any six development-related courses that apply directly to their particular interests.
- 33.797 Master's Thesis Supervision (6) or six semester hours in nonthesis research.

Special Opportunities

International Development Forum. The School of International Service, in conjunction with the Washington chapter of the Society for International Development, sponsors a weekly International Development Forum. The forum invites noted scholars and policy makers to interact on campus with students, faculty, and members of the Washington development community in discussions of current issues in the international development field.

Note Also: Students not wishing to enroll in the M.A. program in international development but who seek a development emphasis may elect the M.A. program in international affairs. Such students should take one of their comprehensive examinations in the field of international development.

M.S. in Development Management

The Master of Science in Development Management offers a unique opportunity to combine development and public administration to provide state of the art training and practice in development management, as presently being developed both in the United States and at important centers in the Third World. The American University's Washington, D.C. location provides a special opportunity to examine major international development organizations and to meet with noted scholars and practitioners active in the field.

Admission to the Program

Preference will be give to applicants who have significant experience working on development problems in the U.S., Western Europe, or in developing countries. Applicants must have a bachelor's degree with a B average and at least twenty-four semester hours of social science courses related to international studies. Students who do not meet these minimum requirements will be assigned additional course work specified at the time of admission. All applicants whose undergraduate language of instruction was English are required to take the aptitude section of the Graduate Record Examination. International applicants whose first language is not English should refer to "International Student Information" in this publication for the university's TOEFL (Test of English as a Foreign Language) requirement. Cultural factors are considered in evaluating transcripts and examination results. Two letters of reference, evaluating undergraduate performance and suitability for graduate study in international affairs, are required. Students may apply for admission for any term, although fall semester admission is preferred.

Degree and Major Requirements

- A total of thirty-nine semester hours of approved graduate work, including six hours of practicum research.
- Advancement to candidacy. (See requirements for M.A. in International Affairs.)
- Proficiency in a modern foreign language or in quantitative methods that will serve as a tool of research. (For details on the foreign language option, see M.A. in International Affairs.)

  To complete the research tool in quantitative methods, students are required to earn grades of B or better in 55.511 The Systems Approach and 55.630 Introduction to Computer Applications.
- One written comprehensive examination in development management. (For information on eligibility and procedures, see M.A. in International Affairs.)

- Nonthesis research requirement: The research requirement is met by completing, with a grade of B (3.0) or better, 33.693 Practicum: Action Research in Development Management (6).

Course Requirements

- Fifteen semester hours from the following:
  - 19.560 Economic Development (3)
  - 33.637 International Development (3)
  - 33.639 Development Problems and Sectoral Strategies (3)
  - 54.608 Comparative Administrative Systems (3)
  - 54.614 Development Administration (3)
  - 55.513 Change and the Managerial Process (3)

- Nine semester hours from the following:
  - 19.500 Price Theory (3)
  - 19.512 Comparative Economic Systems (3)
  - 33.537 Special Topics in Development Management (3)
  - 33.638 Selected Topics in International Development Skills (1)
  - 54.633 Public Financial Management (3)
  - 55.511 The Systems Approach (3)
  - 55.630 Introduction to Computer Applications (3)

- Nine semester hours of approved course work in an area of specialization of the student's choice. The following are recommended:

  Rural Development and Regional Planning: focusing on such topics as managing rural development, urban economic development, and migration and regional planning.

  Project and Program Management: focusing on such topics as conflict resolution and negotiation, qualitative evaluation, and project management.

  Managing International and Regional Organizations: focusing on such topics as development banking, theory of international trade, negotiating the New Economic Order, and administration of international programs.

- Six semester hours of supervised action research in 33.693 Practicum: Action Research in Development Management (6).

Special Opportunities

A student who has performed successfully for more than two years as a program or project manager, management analyst, personnel specialist, budget examiner, or in a significant managerial role above the trainee-professional level before admission to the program may apply through the codirectors of the program to the Dean of SIS to have the total program reduced by up to six semester hours. Such application must make reference to a number of areas in which the student has acquired basic competency. Credit earned as part of an internship program would not count toward the total course requirements for students availing themselves of this provision.

J.D./M.A. in Law and International Affairs

Admission to the Program

Interested students must apply to and be accepted by the Washington College of Law (WCL). The student will then apply to the School of International Service for admission to the master's program which he or she may begin after completing one full year of full-time study at WCL. The School of International Service reviews the application materials submitted to the Washington College of Law and accepts LSAT scores in place of the GRE general scores normally required for admission to other programs. For specific criteria employed by the School of International Service, see the master's program in international affairs above. Admission to either of the participating teaching units in no way implies that admission to the other unit will necessarily be granted.

Degree and Major Requirements

- A total of eighty-six hours of course work in the Washington College of Law.

  Before beginning study with the School of International Service, students must have completed one full academic year of course work in the Washington College of Law.

- A total of thirty semester hours of approved graduate work for the master's portion of the program.

  Up to fifteen hours of credit in WCL courses dealing with international law and organization or with related topics such as jurisprudence may be credited toward the M.A. requirements. (See approved list at WCL).

- Legal Method, offered by the Washington College of Law, as a tool of research.

- Two comprehensive examinations:

  a special examination in the field of international law and organization administered by the Washington College of Law with the participation of faculty members from both units;

  a comprehensive examination in another SIS field selected by the student in consultation with a faculty adviser. For a complete list of comprehensive fields and other information pertaining to the comprehensives, consult the office of the SIS graduate counselor.

- Thesis option: six semester hours and submission of thesis.

  Nonthesis option: two three-hour research papers.

Course Requirements

- 33.725 Seminar in Law and International Affairs (3)
- Twelve semester hours taken in an SIS field other than international law and organization.
- 33.797 Master's Thesis Supervision (6)
  or

two three-hour courses at the .600 or .700 level as vehicles for two substantial research papers constituting the nonthesis option.

Ph.D. in International Relations

Admission to the Program

Applicants for the Ph.D. degree program usually hold a master's degree or its equivalent in a related field. Students who have not progressed beyond a bachelor's degree may be admitted if they are qualified. Applicants should present a prior cumulative grade-point average that is substantially above B (3.50 or higher on a 4.00 scale) in a field relevant to international relations. The aptitude section of the Graduate Record Examination is required of all applicants, including international students, whose language of instruction at either the undergraduate or master's level was English. International applicants whose first language is not English should refer to "International Student Information" in this publication for the university's TOEFL (Test of English as a Foreign Language) requirement. The school takes cultural factors into account in making admissions decisions. Applicants must supply at least three letters of reference which evaluate their graduate performance and their suitability for undertaking doctoral study. Candidates under active consideration may be invited for personal interviews.

Applicants for the Ph.D. degree will be considered and admitted only for the fall semester each year. The school does not permit students to begin their doctoral work in the spring. In order to be considered for fall admission, applications and supporting materials must reach the Office of Admissions no later than February 1. Although applicants for part-time doctoral study are eligible for admission, students should plan to take no fewer than two courses each term and are strongly encouraged to commit themselves to at least one academic year of full-time study in the course of their program.

Degree and Major Requirements

- A total of seventy-two semester hours of approved graduate work, including dissertation research.
- Advancement to candidacy after the student has completed twelve semester hours of doctoral work and in no case later than the semester in which eighteen semester hours are completed.

  A minimum grade-point average of 3.25 in all doctoral-level course work is required. Any incomplete grades or course deficiencies specified at the time of admission must be removed before a student applies for advancement. A student advancing to candidacy must first complete an oral qualifying evaluation covering the proposed program of study. Application procedures and other requirements for advancement to candidacy may be obtained from the SIS graduate counselor.
- Tool-of-research certification in one modern foreign language or in quantitative analysis.

  The tool is identified and approved at the time of advancement to candidacy. For a modern foreign language tool, the proficiency required for European languages is "4-level," for Asian languages "2-level," and for other languages "3-level" as measured by the standards of the Foreign Service Institute of the U.S. Department of State. Examinations are administered by the Department of Language and Foreign Studies.

  The research requirement in statistics may be satisfied by minimum grades of B in 33.600 Introduction to Quantitative International Relations, 53.612 Conduct of Inquiry I, and 53.613 Conduct of Inquiry II. The research requirement in computer methods may be satisfied by minimum grades of B in 33.600, 33.513 Computer Applications in International Relations Research, and a third course to be determined by the student's research interests and needs.

  Students who have taken equivalent courses elsewhere have the option of validating the quantitative tool by passing, with a minimum grade of B, a written equivalency examination given in the most advanced course in statistics or computer methods.
- Four doctoral-level examinations including:

  Three written comprehensive field examinations, one in each of the student's chosen fields, including the required core field of International Relations.

  A general integrative oral examination in International Relations to be taken after successful completion of all other examinations. Students should be prepared to outline and discuss their dissertation proposal as a part of the integrated oral examination. A student who fails the general integrative oral examination may be permitted one retake upon petition.

  The required field of International Relations must be fulfilled through completion of the sequence of doctoral seminars offered by the School of International Service. One of the remaining secondary fields must be an SIS field. The third field may be an SIS field, an elective field offered by another teaching unit, or a special field by petition. Students are expected to demonstrate the relevance of proposed fields to their overall program of study.

  To qualify for the comprehensive examinations, a student must have advanced to candidacy. After advancement to candidacy is certified, however, it is strongly recommended that students complete their course work before taking the first of the four comprehensive examinations outlined above.

  For a list of comprehensive fields and scheduling procedures, see the SIS graduate office.
- Dissertation and defense of the dissertation in an oral examination.

  The dissertation requires original research of high quality in a subject that is directly related to the student's program emphasis.

  Although the student presents a general statement of plans for a dissertation topic when applying for advancement to candidacy, a formal proposal for acceptance and for assignment of a faculty committee is presented only after the student has passed all comprehensive examinations. Dissertation hours may be undertaken only when all other requirements have been fulfilled.

Course Requirements

- Four sequential seminars in the international relations core field are to be taken with other members of the student's entering class:
  - 33.701 Development of the Study of International Relations (3)
  - 33.702 Comparative and Cross-National Studies (3)
  - 33.703 International Political Economy (3)
  - 33.704 Conduct of Inquiry in International Relations (3)

  Doctoral-level course preparation in two other comprehensive examiniation fields selected according to the student's interests and in consultation with the director of doctoral studies.

- 33.799 Doctoral Dissertation Supervision (12)

A doctoral student may transfer up to thirty semester hours of previous graduate work earned with minimum grades of B in each course. Previously earned M.A. credit will be accepted toward the doctorate if relevant to the student's overall graduate program as determined by the selection of comprehensive fields and dissertation subject. Requests for transfer of graduate credit from other accredited institutions are considered at the time of advancement to candidacy. M.A. programs or other graduate courses completed more than eight years before the semester of admission are not transferable.

Special Opportunities

In addition to the opportunities listed under the master's programs in international affairs and international development above, doctoral students are eligible to compete for a limited number of teaching assistantships and other graduate honor awards including dissertation fellowships.

Note Also: Doctoral students are expected to maintain a minimum grade-point average of 3.25 on a 4.00 scale. Students who have not achieved the minimum grade-point average at the time of application for advancement to candidacy will not be permitted to continue in the doctoral program. Should the average fall below 3.25 at any time after advancement to candidacy, the student's candidacy or assistantship or both may be terminated. A cumulative grade-point average of 3.25 in all doctoral courses is a requirement for graduation.

School of Justice

Dean Rita J. Simon

Full-Time Faculty

Professor D. Aaronson, R. Johnson, R.A. Myren (Emeritus), J.H. Reiman, I. Robbins, D.J. Saari, L. Shelley, R.J. Simon, A.S. Trebach, E.C. Viano, R.I. Weiner

Associate Professor R.R. Bennett, J.J. Fyfe

Assistant Professor M. Lichtenstein, J.P. Lynch, J.M. Moneymaker, B. Wiegand, M. Zimmerman

The School of Justice is one of the oldest programs in the field of justice and is ranked second among justice programs in the United States. There are currently sixteen full-time faculty in the school with educational backgrounds in law, criminology, criminal justice, philosophy, political science, psychology, sociology, and social work. The school offers two Bachelor of Arts degrees, in Justice and in Law and Society; a Master of Science degree in Justice; a Ph.D. in Sociology: Justice; and a joint Juris Doctor and Master of Science program in Law and Justice.

The B.A. in Justice curriculum provides a thorough foundation in laws, regulations, policies, social conditions, and public institutions (justice systems) that define and resolve problems of justice. It also explores the philosophical, legal, and moral foundations on which justice systems and institutions function. The B.A. in Law and Society cuts across traditional disciplinary boundaries and provides students with a background in law, justice, social sciences, humanities, and public policy. Both undergraduate majors can be considered prelaw majors.

The graduate curriculum focuses on the nature, function, and foundation of law and its relationship to problems that arise from its implementation in justice systems. It provides students with theoretical and methodological knowledge to understand, analyze, formulate, and implement justice programs and policies toward improvement of justice systems and the reduction of crime and other forms of injustice within the United States and worldwide. Students may choose several of the following areas of concentration: Administration and Organization of Justice; Law and Society; Court Management; Drugs, Justice, and Public Policy; Law Enforcement; and Corrections: Juvenile and Adult. The program provides sufficient flexibility to allow a student to develop a program that takes into account previous academic background and meets particular interests and professional and academic goals.

The school's programs prepare students for law school and further graduate study, as well as for entry-level positions and professional careers in the justice field. Washington, D.C., provides a constant source of Cooperative Education and internship placements, which often point the way to challenging employment.

B.A. in Justice

Admission to the Program

New freshman and transfer students are admitted through the Office of Admissions. Current students in good academic standing who wish to transfer into the school or develop a double major may do so through a formal declaration of major.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of forty-eight semester hours with grades of C or better.

Course Requirements

- 73.103 Introduction to Problems of Justice /S (3)
- 73.104 Introduction to Systems of Justice /S (3)
- 73.205 History and Philosophy of Criminology /A, S (3)
- 73.307 Justice and Law /A, S (3)
- 73.308 Justice and Morality /A, S (3)
- 73.380 Introduction to Justice Research (3) (Prerequisite: 42.202 and junior standing)

- Six semester hours in law enforcement:
  - 73.210 Policing in America: An Introductory Survey /S (3)
  - 73.211 Contemporary Issues in American Law Enforcement (3)
  - 73.311 Introduction to Forensic Science (3)
  - 73.313 Organized Crime (3)
  - 73.315 White-Collar and Commercial Crime (3)
  - 73.320 Criminal Procedure (3)
  - 73.321 Evidence (3)
  - 73.382 Determination of Fact (3)
  - 73.411 Problems in Forensic Science (3)
  - 73.540 Police and the Political System (3)

- Six semester hours in corrections:
  - 73.230 Contemporary Corrections in the United States /S (3)
  - 73.330 Institutional Corrections /S (3)
  - 73.331 Corrections in the Community (3)
  - 73.431 The Prison Community (3)
  - 73.517 Victimology (3)

- Three semester hours in judicial administration:
  - 73.340 Judicial Administration: Criminal (3)
  - 73.341 Judicial Administration: Civil (3)

- Three semester hours in law and society:
  - 73.206 Social Justice and Deviant Behavior (3)
  - 73.253 Juvenile Delinquency and Youth Crime (3)
  - 73.351 Individuals, Institutions, and Justice in America (3)
  - 73.352 Psychiatry and the Law /S (3)
  - 73.420 Legal Reasoning (3)
  - 73.450 Prevention of Crime and Delinquency (3)
  - 73.454 Violence in America (3)
  - 73.458 The Juvenile and the Law (3)
  - 73.463 The Free Press and the Administration of Justice (3)
  - 73.500 Moral Issues in Criminal Justice (3)
  - 73.501 The Concept of Justice (3)
  - 73.502 The Concept of Law (3)
  - 73.504 Comparative Criminology and Criminal Justice (3)
  - 73.541 The Police State (3)

- Twelve additional semester hours from any of the four areas listed above, as well as the area of drugs, justice, and public policy:
  - 73.300 Drugs and Society /S (3)
  - 73.301 Drugs, Consciousness, and Human Fulfillment (3)
  - 73.302 Alcoholism and Society (3)
  - 73.550 Drugs, Crime, and Public Policy (3)
  - 73.551 Comparative Justice Studies (3)
  - 73.552 Drug Abuse and the Law (3)
  - 73.553 Drug Abuse Treatment (3)

  Courses may also include:
  - 73.390 Independent Reading Course in Justice (1–6)
  - 73.392 Cooperative Education Field Experience (3–9)
  - 73.490 Independent Study Project in Justice (1–6)
  - 73.491 Internship in a Justice Setting (1–6)

- At least sixty semester hours of course work outside the School of Justice, including:
  - 65.200 Introduction to Sociology /S (3)
  - 57.100 Introductory Survey of Psychology /N, S (3)
  - 42.202 Basic Statistics /N (4)

Students are advised to select some of their elective courses from related areas such as political science, economics, history, anthropology, psychology, sociology, philosophy, literature, computer systems applications, and accounting.

B.A. in Law and Society

Admission to the Program

New freshman and transfer students are admitted through the Office of Admissions. Current students in good academic standing who wish to transfer into the school or develop a double major may do so through a formal declaration of major.

This program is designed for students who anticipate further education or careers in law and law-related areas, as well as in the social sciences and the humanities.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of forty-eight semester hours with grades of C or better.

Course Requirements

- 19.101 Introduction to Economics I (Macro) /S (3)
- 19.102 Introduction to Economics II (Micro) /S (3)
- 73.103 Introduction to Problems of Justice /S (3)
- 73.104 Introduction to Systems of Justice /S (3)

- 73.307 Justice and Law /A, S (3)
- 73.380 Introduction to Justice Research (3) (Prerequisite: 42.202 and junior standing)
- 73.420 Legal Reasoning (3)

- Twenty-seven semester hours chosen in consultation with the program adviser from courses in the following areas: law and the city; law and economics; justice systems; legal systems–normative; comparative legal systems; theoretical foundations of law; and law and public policy. Below is a list of approved courses.

Law and the City
03.338 The City as Community: Anthropology of Urban Life /S (3)
19.315 Urban Political Economy /S (3)
53.240 Metropolitan Politics /S (3)
53.441 Urban Public Finance (3)
65.387 Urban Sociology (3)
73.331 Corrections in the Community (3)

Law and Economics
13.201 Business Law (3)
19.308 History of Economic Development /S (3)
19.317 Political Economy /S (3)
19.320 History of Economic Ideas (3)
19.322 Marxist Economics (3)
73.313 Organized Crime (3)
73.315 White-Collar and Commercial Crime (3)

Justice Systems
73.210 Policing in America: An Introductory Survey /S (3)
73.230 Contemporary Corrections in the U.S. /S (3)
73.253 Juvenile Delinquency and Youth Crime (3)
73.330 Institutional Corrections /S (3)
73.431 The Prison Community (3)
73.450 Prevention of Crime and Delinquency (3)
73.540 Police and the Political System (3)

Legal Systems–Normative
53.350 American Constitutional Development (3)
53.351 Civil Rights and Liberties (3)
65.410 Classical Sociological Theory (3)
73.320 Criminal Procedure (3)
73.352 Psychiatry and the Law /S (3)
73.458 The Juvenile and the Law (3)

Comparative Legal Systems
03.100 Cultures of the World /S: Solving Human Problems (3)
03.201 Cultural Anthropology /S (3)
03.336 Social Structure (3)
33.161 Civilizations of Asia I (3)
33.162 Civilizations of Asia II /A (3)
33.321 International Law (3)
53.231 Third-World Politics /S (3)
53.330 Politics of Industrial Societies (3)
53.401 Communism, Fascism, and Democracy (3)
53.501 Contemporary Social Theory (3)
73.504 Comparative Criminology and Criminal Justice (3)
73.541 The Police State (3)

Theoretical Foundations of Law
53.300 Modern Political Thought (3)
60.320 Ethics (3)
60.221 Philosophy, Politics, and Society /A, S (3)
65.411 Contemporary Sociological Theory (3)
73.308 Justice and Morality /A, S (3)
73.502 The Concept of Law (3)

Law and Public Policy
19.302 Comparative Economic Systems /S (3)
19.309 Public Economics /S (3)
53.321 Congress and Legislative Behavior /S (3)
53.323 Government and Public Policy /S (3)
53.550 Women and the Law (3)
73.206 Social Justice and Deviant Behavior (3)
73.454 Violence in America (3)

Courses may also include:
73.390 Independent Reading Course in Justice (1–6)
73.392 Cooperative Education Field Experience (3–9)
73.490 Independent Study Project in Justice (1–6)
73.491 Internship in a Justice Setting (1–6)

It is recommended that students select the basic introductory courses in sociology (65.200), philosophy (60.101), and political science (53.120) to fulfill university general education requirements.

Honors Program in Justice

The Honors Program in Justice is a three-or six-credit, advanced studies program for eligible juniors and seniors in the School of Justice. Students work independently with a member of the full-time faculty on a justice research project. Those accepted into the Honors Program enroll for letter-grade credit in 73.490 Honors Research Project I during either the fall or spring semester. Upon recommendation of the faculty member, a student may continue the research and enroll in 73.490 Honors Research Project II.

To be eligible for the Honors Program in Justice, students must meet the following criteria: 1) an overall grade-point average of 3.5 or above on completion of sixty semester hours of course work (transfer students must have completed a minimum of fifteen semester hours of course work at The American University) and 2) acceptance of a proposed research project by a member of the School of Justice full-time faculty. Students may apply for admission after completion of sixty semester hours of course work.

Washington Semester Program in Justice

Students earn undergraduate credit that may be applied toward the requirements for a bachelor's degree.

Admission to the Program

This special one-semester program draws on the unique environment of Washington, D.C., to provide students with a realistic picture of the processes of the criminal justice system; the interrelationships of the institutions operating in that system; the problems of civil justice systems; and local, national, and international levels of the justice system. This

is accomplished through seminars, internships, and independent research projects. The program is open to students of The American University and students of affiliated institutions across the country. Requirements for admission to the program are: (1) a major in justice or a related social science; (2) nomination by two Washington Semester faculty representatives; (3) 2.50 grade-point average on a 4.00 scale; and (4) at least second-semester sophomore standing at the time of participation.

Course Requirements

- 73.490 Independent Study Project in Justice (1–6) (or a regular American University course)
- 73.491 Internship in a Justice Setting (1–6)
- 73.492 Washington Justice Seminar I: A National and Intergovernmental Perspective (4)
- 73.493 Washington Justice Seminar II: A National and Intergovernmental Perspective (4)

Special Opportunities

Internships, discussions with justice officials at all levels of government, and field trips to justice agencies.

Minor in Justice

Requirements

- 73.103 Introduction to Problems of Justice /S (3)
- 73.104 Introduction to Systems of Justice /S (3)
- Twelve semester hours in justice at the 300 level or above.

  No more than six semester hours may be taken from any one concentration area (law enforcement; corrections; judicial administration; law and society; and drugs, justice, and public policy)

B.A./M.S. in Justice

Admission to the Program

The program enables students to complete the B.A. and the M.S. in five years. Undergraduate students with majors in justice or related disciplines at The American University apply to this program at the end of the junior year. Admissions decisions are based on the normal M.S. standards and procedures of the school.

Course Requirements

- All requirements for the B.A. degree at The American University with a major in Justice or related discipline.
- All requirements for the M.S. degree with a major in Justice.

Students may apply six semester hours of course work in justice at the 500 level or above to satisfy the requirements for both degrees.

M.S. in Justice

Admission to the Program

A background of relevant undergraduate preparation in the social, behavioral, and administrative or managerial sciences is preferred, but not absolutely required. All applicants are evaluated on the basis of scholastic achievement in their last sixty semester hours of undergraduate work. The Graduate Record Examination verbal and quantitative general tests, a bachelor's degree from an accredited institution, and two letters of recommendation from professors or employers are required.

Tracks

Administration and Organization of Justice; Law and Society; Court Management; Drugs, Justice, and Public Policy; Law Enforcement; and Corrections: Juvenile and Adult.

Degree and Major Requirements

- A total of thirty-six semester hours of approved graduate work.
- One three-hour written comprehensive examination in an area of specialization (see tracks above).
- Two research courses are required in lieu of a thesis. (Prerequisite: a course in basic statistics or proficiency examination equivalent.)

Course Requirements

- 73.600 Proseminar: Issues in Justice (3)
- 73.680 Introduction to Justice Research I (3)
- 73.681 Introduction to Justice Research II (3)

Administration and Organization of Justice
- 73.521 Law and the Mental Health System (3)
- 73.522 Crime and Public Policy (3)
- 73.551 Comparative Justice Studies (3–6)
- 73.606 Nature and Function of the American Legal System (3)
- 73.608 The Constitution and Criminal Procedure (3)

Law and Society
- 73.500 Moral Issues in Criminal Justice (3)
- 73.501 The Concept of Justice (3)
- 73.502 The Concept of Law (3)
- 73.503 Criminal Behavior: A Psychosocial Analysis (3)
- 73.504 Comparative Criminology and Criminal Justice (3)
- 73.541 The Police State (3)
- 73.604 Theoretical Issues in Justice (3)
- 73.609 The Political Basis of the Criminal Justice System (3)

Court Management
- 73.660 Critical Issues in Judicial Administration (3)
- 73.661 Complex Organizational Theory in Court Systems and Legal Organizations (3)
- 73.662 Court Management Practices (3)
- 73.690 Independent Study Project in Justice (1–6)

Drugs, Justice, and Public Policy

- 73.550 Drugs, Crime, and Public Policy (3)
- 73.551 Comparative Justice Studies: Institute on Drugs, Crime, and Justice in England and America (6)
- 73.552 Drug Abuse and the Law (3)
- 73.553 Drug Abuse Treatment (3)

Law Enforcement

- 73.540 Police and the Political System (3)
- 73.612 White-Collar Crime in Government, Business, and Labor (3)
- 73.640 Theoretical Bases of Law Enforcement (3)
- 73.641 Management and Policy Issues in Law Enforcement (3)
- 73.642 Seminar on Contemporary Literature in Law Enforcement (3)

Corrections: Juvenile and Adult

- 73.517 Victimology (3)
- 73.551 Comparative Justice Studies (6)
- 73.683 Institutional Corrections (3)
- 73.684 Community Corrections (3)
- 73.685 Juvenile Corrections (3)
- 73.687 Management Issues in Corrections (3)

Research Courses

73.520 Theories of Planned Change: Society, the Environment, and Justice (3)
73.631 Applied Justice Program Evaluation Techniques (3)
73.680 Introduction to Justice Research I (3)
73.681 Introduction to Justice Research II (3)

Internships and Cooperative Education

73.691 Internship in a Justice Setting (1–6)
73.692 Cooperative Education Field Experience (3–6)

Students without practical experience are encouraged to participate in a field experience to gain insight into the operation of justice agencies and research activities.

J.D./M.S. in Law and Justice

Admission to the Program

The program enables students to complete the J.D. and M.S. degrees in approximately four years. Students must apply to and be accepted by both the Washington College of Law and the School of Justice. Admission to either the M.S. or J.D. program in no way implies that admission to both programs will necessarily be granted.

Students may apply to both programs simultaneously or begin either program separately and then apply to the other program. However, once the study of law has begun, no justice courses can be taken until one full year of full-time law study has been completed.

Admission criteria are the same as those for the master's program in justice. If application is made initially to the Washington College of Law (WCL), LSAT scores are accepted in place of GRE general scores and application materials submitted to the WCL are reviewed for admission to the School of Justice.

Requirements

- All requirements for the Juris Doctor in the Washington College of Law.
- All requirements for the Master of Science in the School of Justice.

Students may apply six semester hours of justice courses to the J.D. degree and six semester hours of law courses to the M.S. degree in Justice. The law adviser must approve the justice courses and the justice adviser must approve the law courses in advance of taking the courses to be applied toward both degrees.

Ph.D. in Sociology: Justice

Admission to the Program

Admission to the program in Sociology with a Specialization in Justice is determined jointly by appointed representatives from the Department of Sociology and the School of Justice.

To apply for admission to this program, students must complete twelve or more semester hours of approved graduate-level course work in sociology with a grade-point average of better than 3.00 on a 4.00 scale, supply letters of recommendation from two persons able to evaluate the applicant's potential for doctoral study, and submit GRE (General) scores.

A minimum of seventy-two hours of approved graduate work is required for the Ph.D. in the program. Normally these seventy-two hours consist of sixty hours of course work and twelve hours of directed study on the dissertation.

Four comprehensive examinations are required: sociological theory, methods of social research, a field of concentration approved by the Department of Sociology, and the candidate's approved area of concentration, administered by the School of Justice. At least one of the two examinations must be taken orally; however, it is strongly recommended that the justice comprehensive examination be written. The dissertation committee is chaired by a member of the School of Justice faculty.

For more information about the Ph.D. in Sociology: Justice, see "Sociology" in this publication.

Center for Technology and Administration

Director Robert P. Boynton

Full-Time Faculty

Professor R.A. Bassler (Emeritus), R.P. Boynton, L.H. Hattery (Emeritus), W.J. Kennevan (Emeritus), I.D. Welt, J.D. Young

Associate Professor W.H. Gammon (Emeritus), N.S. Levinson, W.H. Money, J.J. Rooney, M.I. Rosenberg (Emeritus)

Assistant Professor T.J. Bergin, E.B. Blaustein, F.W. Connolly, R.H. Igersheim

Instructor A. Alauddin, J.C. Roberts

Research Faculty

Research Professor W.D. Rowe

The Center for Technology and Administration offers undergraduate and graduate programs in the application of information technologies to the solution of administrative and management problems. Particular attention is paid to the public, international, and not-for-profit sectors. The degree programs are multidisciplinary and professionally oriented, preparing participants for careers in applying and managing the rapidly developing and changing information technologies.

The undergraduate programs in Computer Systems Applications and in Public Systems Management prepare students for entry-level professional positions in a wide range of information technology and related positions such as applications programmer, systems analyst, user representative, and systems procurer.

The master's degree program focuses on the design of management information systems and on the technologies, issues, and management concerns of computer and telecommunications systems applications.

All programs provide opportunities for course work to meet the special needs and interests of participants. Two areas that are of interest to the faculty of the center are cross-cultural technology transfer and the management of innovation and development. Students may pursue other special interest areas through course work from the other schools of the College of Public and International Affairs or from other colleges.

Bachelor of Science in Technology of Management (B.S.T.M.) in Computer Systems Applications

Admission to the Program

Requires a 2.00 cumulative grade-point average in all courses taken at The American University or accepted for transfer from other institutions. Students must receive a grade of C or better in all course requirements.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of seventy-seven semester hours with grades of C or better.

Course Requirements

- 14.240 Principles of Accounting I (3)
- 14.241 Principles of Accounting II (3)
- 19.101 Introduction to Economics I (Macro) /S (3)
- 19.102 Introduction to Economics II (Micro) /S (3)
- 55.101 Information and Systems /S (3)
- 55.310 Introduction to Data Processing /S (3)
- 55.331 Introduction to Computer Design /N (3)
- 55.334 Programming Concepts I: COBOL /N (3)
- 55.362 Fundamentals of Technology and Management /S (3)
- 55.363 Management and the Computer /S (3)
- 55.431 Documentation of Programs and Systems (3)
- 55.434 Programming Concepts II: Advanced COBOL /N (3)
- 55.439 Senior Seminar in Computer Systems Applications (3)
- 55.460 Applied Systems Design (3)
- 60.100 Introduction to Logic /N (3)

- 41.211 Applied Calculus I /N (4)
  or
  41.221 Calculus I /N (4)

- 42.202 Basic Statistics /N (4)
  or
  41.501 Probability (3)

- 42.300 Business Statistics /N (3)
  or
  42.502 Introduction to Mathematical Statistics (3)

- Twenty-one semester hours from the following:
  55.337 Problem Analysis /N (3)
  55.392 Cooperative Education Field Experience (3–9)
  55.432 Introduction to Simulation and Modeling (3)
  55.435 Advanced Programming Concepts: PL/1 (3)
  55.436 Computer Operating Systems Management (3)
  55.450 Information Storage and Retrieval (3)
  55.461 Human Factors in Systems Design (3)
  55.490 Independent Study Project in Technology and Administration (1–6)
  55.491 Internship (1–6)

  (No more than six semester hours of cooperative education, internship, independent study, or programming-language credit may be used to satisfy this requirement.)

Bachelor of Science in Technology of Management (B.S.T.M) in Public Systems Management

Admission to the Program

Requires a 2.00 cumulative grade-point average in all courses taken at The American University or accepted for transfer from other institutions. Students must receive a grade of C or better in all course requirements.

Major Requirements

- A total of eighty-three semester hours with grades of C or better.

Course Requirements

- 10.381 Introduction to Personnel Administration (3)
- Acquisition and Logistics Management (3)
- 14.240 Principles of Accounting I (3)
- 14.241 Principles of Accounting II (3)
- 19.101 Introduction to Economics I (Macro) /S (3)
- 19.102 Introduction to Economics II (Micro) /S (3)
- 19.309 Public Economics /S (3)
- 53.120 Introduction to American Politics /S (3–4)
- 53.323 Government and Public Policy /S (3)
- 55.101 Information and Systems /S (3)
- 55.310 Introduction to Data Processing /S (3)
- 55.334 Programming Concepts I: COBOL /N (3)
- 55.362 Fundamentals of Technology of Management /S (3)
- 55.363 Management and the Computer /S (3)
- 55.392 Cooperative Education Field Experience (6)
- 55.434 Programming Concepts II: Advanced COBOL /N (3)
- 55.496 Selected Topics (Nonrecurring) (3)
- 60.100 Introduction to Logic /N (3)

- 41.211 Applied Calculus I /N (4)
  or
  41.221 Calculus I /N (4)

- 42.202 Basic Statistics /N (4)
  or
  41.501 Probability (3)

- 42.300 Business Statistics /N (3)
  or
  42.502 Introduction to Mathematical Statistics (3)

- Eighteen semester hours of course work in a field of specialization approved by the center's academic counselor and the sponsoring teaching unit.

  Possible areas of specialization are Operations Research, Computer Systems Applications, Environmental Science, Urban Affairs, Justice Studies, International Relations, United States and Comparative Foreign Policy, and Economics.

Minor in Computer Systems Applications

Requirements

- 55.101 Information and Systems /S (3)
- 55.310 Introduction to Data Processing /S (3)
- 55.362 Fundamentals of Technology of Management /S (3)
- 55.363 Management and the Computer /S (3)
- 55.460 Applied Systems Design (3)
- 55.337 Problem Analysis /N (3) and
- 40.260 Introduction to Computing /N (4)
  or
  55.334 Programming Concepts I: COBOL /N (3) and
  55.434 Programming Concepts II: Advanced COBOL /N (3)

Bachelor's/M.S.T.M.

Admission to the Program

Admission is open to undergraduates in any field who have a 3.00 overall grade-point average at the time of admission and a 3.30 grade-point average in the thirty semester hours taken immediately prior to admission.

Requirements

- All requirements for the bachelor's degree.
- All requirements for the Master of Science in Technology of Management.

Two courses, 55.511 The Systems Approach (3) and 55.530 Real-Time Systems (3), may be applied to both degrees. Students must complete the necessary foundation requirements (finite mathematics, quantitative analysis for information systems, introduction to data processing, and a computer-language course) before taking 55.511 and 55.530, each of which must be completed with a grade of B or better.

Master of Science in Technology of Management (M.S.T.M.)

Admission to the Program

To be admitted to full standing, candidates must have a bachelor's degree from an accredited college or university and a grade-point average of 3.00 for the last sixty hours of undergraduate work. Admission may be granted to students who do not meet minimum standards if they complete four graduate-level courses in the Center for Technology and Administration in nondegree status with a 3.50 grade-point average and no grade below a B. The four courses must be chosen with the advice and consent of the center's academic counselor.

Options

Students may concentrate either in Computer Systems Applications or Management Information Systems. A special program with a concentration in Science/Technology Policy and Administration currently is available only on a contract basis.

Degree and Major Requirements

- Foundation requirements.

  For Computer Systems Applications and Management Information Systems: quantitative analysis for informa-

tion systems and data-processing and a programming language.

For Science/Technology Policy and Administration: statistics.

Foundation requirements must be completed with grades of B or better before students begin taking graduate-level courses in the program. They may be satisfied by course work or by waiver based on examination or evidence of experience. Information on ways the foundation requirements may be satisfied is available at the center.

- A total of thirty-six semester hours of graduate credit.
- One comprehensive examination in the primary field of concentration.
- Thesis option: Six semester hours in a subject related to the field.

  Nonthesis option: six semester hours in one or two independent research projects for six semester hours or one technology of management research-oriented course at the 600 level and the required field seminar.

Course Requirements

General Requirements

Computer Systems Applications and

Management Information Systems

- 10.611 Managerial Economics (3)
- 55.511 The Systems Approach (3)
- 55.530 Real-Time Systems (3)

Science/Technology Policy and Administration

- 10.611 Managerial Economics (3)
- 55.511 The Systems Approach (3) (recommended)
  or
  55.513 Change and the Managerial Process (3)

Field Requirements

- One-field concentration: Six courses and the seminar in one field and two courses in a related field.

  Two-field concentration: four courses and the seminar in the primary field and at least four courses in the secondary field.

  Candidates wishing to incorporate study in another university department must complete at least four field courses and the seminar in a technology of management field and at least four courses approved by the center as an area of concentration.

Computer Systems Applications

55.531 Computer Design and Comparative Systems (3)
55.532 Advanced Programming Management (3)
55.533 Concepts in Computer Communication (3)
55.534 Microcomputer Applications for Managers (3)
55.633 Programming Systems and Languages (3)
55.634 Microcomputer Software (3)
55.635 Workshops in Computer Systems Applications (3)
55.637 Operating Systems (3)
55.730 Seminar in Computer Systems Applications (3)

or others as advised.

Management Information Systems

55.515 Human Relations Aspects of Management Systems (3)
55.560 Systems Design for Management (3)
55.561 Management of Computer and Information Systems (3)
55.660 Management Information and Reporting Systems (3)
55.661 Telecommunications and Management Information Systems (3)
55.665 Workshop in Management Information Systems (3)
55.760 Seminar in Management Information Systems (3)

others as advised.

Science/Technology Policy and Administration

55.570 Management of Research and Engineering (3)
55.571 Technological Forecasting and Assessment (3)
55.670 The Politics and Economics of Research and Development (3)
55.770 Seminar in Science/Technology Policy and Administration (Master's) (3)

others as advised.

Research Requirement

- Six semester hours in thesis or nonthesis course work completed with grades of B or better.

Special Master's Degree Program

On a contract basis, the Center for Technology and Administration offers a degree program with a concentration in Science/Technology Policy and Administration. The Advanced Technology Management Program is designed for information professionals, scientists, engineers, and individuals in related careers who currently occupy or anticipate occupying managerial positions within their organizations. It is tailored to meet the needs of specific organizations.

Graduate Certificate in Computer Systems Applications

Admission to the Program

Open to students with a bachelor's degree.

Requirements

- Students must satisfy foundation requirements in (a) data processing and a programming language and (b)

quantitative analysis for information systems. These requirements may be satisfied by course work or by waiver based on examination or evidence of experience. Further information is available from the Center for Technology and Administration or the Office of Continuing Education and Conferences.

- 55.511 The Systems Approach (3)
- 55.530 Real-Time Systems (3)

- Nine semester hours from:
  55.531 Computer Design and Comparative Systems (3)
  55.532 Advanced Programming Management (3)
  55.533 Concepts in Computer Communication (3)
  55.635 Workshops in Computer Systems Applications (3)

Graduate Certificate in Management Information Systems

Admission to the Program

Open to students with a bachelor's degree.

Course Requirements

- Students must satisfy foundation requirements in (a) data processing and a programming language and (b) quantitative analysis for information systems. These requirements may be satisfied by course work or by waiver based on examination or evidence of experience. Further information is available from the Center for Technology and Administration or from the Office of Continuing Education and Conferences.

- 55.511 The Systems Approach (3)
- 55.530 Real-Time Systems (3)
- 55.560 Systems Design for Management (3)
- 55.660 Management Information and Reporting Systems (3)
- 55.665 Workshop in Management Information Systems (3)

Adult students receive one-on-one academic counseling.

Continuing Education

Director, University Programs Advisement Center Dorothy Bates

Director, Office of Contract Programs Kathryn Mannes

Acting Director, Office of Continuing Education and Conferences Kathryn Mannes

Director, Institute for Learning in Retirement Kenneth Young

Education and training for adults at The American University is a continuous, integrated effort, which speaks to the needs of members of the local, national, and international communities.

The American University serves the educational needs of adults through full-or part-time study by helping them determine realistic personal and professional educational goals, enrich their knowledge, and improve their technical and professional qualifications. To this end, the university designs and implements academically stimulating programs for lifelong education and learning through evening, off-campus, and contract credit educational programs; through noncredit workshops, conferences, teleconferences, and many other formats. Through nondegree status it is possible for adults to earn undergraduate and graduate credit without formal admission to degree status. The programs available are described briefly in the following paragraphs. Serving the students enrolled in these programs are several offices including the University Programs Advisement Center, the Office of Continuing Education and Conferences, and the Office of Contract Programs. For more information about these programs, call the University Programs Advisement Center at (202) 885–2500.

Nondegree Status

The entire curriculum of The American University is open to adults who hold the appropriate qualifications. These students may enroll in nondegree status through the University Programs Advisement Center. Nondegree status means that the student has not formally been accepted into a degree program at The American University. Enrollment in nondegree status is open to U.S. citizens (1) with a high-school diploma (or equivalent); or (2) who are in good standing if currently enrolled in another college or university; or (3) who are high-school seniors with a B average and are recommended by their school counselor or principal. Nondegree students must meet the prerequisites of the course or courses desired. Undergraduate-level nondegree status is available to high-school graduates (or holders of equivalency diplomas); and graduate-level nondegree status is available to students with a bachelor's or higher degree. Students in nondegree status are held to the same academic standards as degree students.

Mobility Clause

Students may take advantage of flexible residency requirements in order to complete the General Studies degree at locations distant from The American University campus. See details under Bachelor of General Studies below.

Degree Programs

To serve adults returning to school to upgrade skills or to obtain a degree, the Office of Continuing Education and Conferences, in cooperation with the schools and colleges of the university, offers degree programs at on-and off-campus locations. The degrees are awarded by the colleges and schools of the university. Courses are provided at times and locations convenient to adults who live and work in the Washington metropolitan area.

The College of Arts and Sciences offers an Associate in Arts and a Bachelor of General Studies through the Office of Continuing Education and Conferences. Persons interested in these programs should call the University Programs Advisement Center at (202) 885–2500 for more information.

Certificate Programs

Certificate programs consist of a prescribed sequence of credit courses concentrating in particular career fields. Academic credit earned may, under most conditions, be applied later towards a degree. A student's acceptance into a nondegree certificate program, however, does not in any way assure later acceptance into a degree program. Most certificate programs consist of the core courses required for related de-

gree programs. Certificates are offered by the Office of Continuing Education and Conferences in cooperation with the colleges and schools of The American University.

To be eligible for enrollment in an undergraduate certificate program, students must have completed high school or the equivalent. Eligibility for a graduate certificate requires completion of a bachelor's or advanced degree. A student with a master's degree may enter a certificate program at the advanced graduate level.

A certificate awarded by The American University at any level is an emblem of professional achievement widely recognized by corporate and government employers.

The following certificates are available for students enrolled in nondegree status.

Business Certificates

Graduate Certificate in Accounting
Graduate Certificate in Business Management
Graduate Certificate in Procurement Management
Graduate Certificate in Real Estate and Urban Development

For detailed information about business certificate programs see the Kogod College of Business Administration chapter in this publication.

Technology of Management

Graduate Certificate in Computer Systems Applications
Graduate Certificate in Management Information Systems

For detailed information about technology of management certificates see the Center for Technology and Administration section of this publication.

Economics

Graduate Certificate in Applied Economics

For detailed information about the economics certificate program see the Department of Economics section of this publication.

Language and Foreign Studies

Undergraduate Certificate in Translation in French
Undergraduate Certificate in Translation in German
Undergraduate Certificate in Translation in Russian
Undergraduate Certificate in Translation in Spanish
Graduate Certificate in Translation in French
Graduate Certificate in Translation in German
Graduate Certificate in Translation in Russian
Graduate Certificate in Translation in Spanish
Graduate Certificate in Teaching English to Speakers of Other Languages

For detailed information about language certificates see the Department of Language and Foreign Studies section of this publication.

Technical Writing

Undergraduate Certificate in Technical Writing
Graduate Certificate in Technical Writing

For detailed information about the certificates in technical writing see the Literature section of this publication.

Performing Arts

Graduate Certificate in Arts Management

For detailed information about the arts management certificate see the Department of Performing Arts section of this publication.

Public Administration and Political Science

Graduate Certificate in Governmental Management
Graduate Certificate in Public Financial Management
Graduate Certificate in Public Management

For detailed information about public administration and campaign management certificate programs see the School of Government and Public Administration section of this publication.

Statistics

Undergraduate Certificate in Applied Statistics
Graduate Certificate in Applied Statistics

For detailed information about statistics certificate programs see the Department of Mathematics, Statistics, and Computer Science section of this publication.

Career and Professional Development

One can design a certificate program to meet specific individual needs. To develop a career-or professional-development certificate students should speak with an adviser in the University Programs Advisement Center to work out a sequence of courses which will meet individual career needs. The sequence of courses must be approved by the university departments or schools involved before an application is accepted. For detailed information about developing a career-or professional-development certificate program consult an adviser in the University Programs Advisement Center (202) 885–2500.

Degree Programs

A.A. in General Studies

This program is designed to serve the educational needs of high-school graduates who seek professional or personal advancement through either full-or part-time study.

Admission to the Program

Any student admitted to degree status at The American University is eligible for admission to this program.

University Requirements

- A total of sixty semester hours with grades of C or better.

- Six semester hours of required English.
- Twelve semester hours of distributive credit.

(See "Undergraduate Study" for details.)

Bachelor of General Studies (B.G.S.)

This program is designed to serve the educational needs of adults who seek professional or personal advancement through either full-or part-time study.

Admission to the Program

Any student admitted to degree status at The American University is eligible for admission to this program. Persons interested in the program should seek advice from the associate dean for undergraduate studies of the College of Arts and Sciences. The associate dean's signature is required for formal declaration of the major.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.

(See "Undergraduate Study" for details.)

Major Requirements

- A total of thirty-six semester hours with grades of C or better.
- Students must complete two declared fields of study, each consisting of at least eighteen semester hours from a single teaching unit of the university and including at least nine semester hours in each field at the 300 level or above. Specific courses for each area of concentration are selected in consultation with an academic adviser.

Special Opportunities

Students in this program may exercise the Mobility Clause option in lieu of satisfying the standard university residency requirement. This option provides that if the student moves to a location more than seventy-five miles from the university campus, the student may complete the degree program at an approved institution and still receive an American University degree. The only restriction is that at least thirty semester hours must be completed at The American University, fifteen of which must be in courses at the 300 level or above with at least six semester hours in each of the two fields of concentration. A retention fee must be paid to The American University for each semester during which the student pursues the program at another institution or is inactive.

The American Association of State Colleges and Universities, acting on behalf of the American Council on Education and Department of Defense, has designated The American University as a Serviceman's Opportunity College (SOC).

Credit for Life Experience

The Assessment of Prior Experiential Learning (APEL) program is a unique undergraduate-level nondegree program for adults with diverse personal and career accomplishments. APEL students earn college credit for learning acquired through work, voluntary activities, leisure pursuits, military experience, and other life experiences. Two courses are required: Issues, Ideas, and Words (three semester hours), a literature and writing course; and Documentation and Analysis of Field Experience (three semester hours), in which APEL students develop written portfolios to be assessed for academic credit by appropriate university faculty. The credit earned (up to thirty semester hours) can be applied toward an undergraduate degree at The American University. For further information call or write to the University Programs Advisement Center, (202) 885–2500, McKinley Building, room 153, The American University, Washington, D.C. 20016. APEL orientation sessions are scheduled throughout the semester at on-and off-campus locations.

Other Programs

Contract Programs

Companies or work organizations can take advantage of American University certificate and degree programs offered at their company sites. Curriculum may be tailored to meet training needs. Scheduling is flexible for the convenience of employees, and contracted programs are particularly cost-effective for companies which provide tuition reimbursement. For more information call the Office of Contract Programs at (202) 885–3990.

Off-Campus Offerings

The university offers certificate and degree programs and courses throughout the Washington, Maryland, and Virginia areas. Programs are designed to meet the educational and personal needs of students who wish to attend the university at a location near their homes or places of employment. Programs and courses are also designed for organizations that want to encourage the educational or professional development of their employees.

Summer Sessions

Students attending summer sessions may choose from over 500 courses in six separate sessions. Students may also choose from a variety of special summer programs. Regular courses are scheduled to allow students to continue their progress toward a degree or certificate or to pursue academic directions they have been unable to explore during other terms.

Washington Summer Seminar

Sponsored by the Washington Semester Programs and the School of Government and Public Administration, this program is a seminar for college-bound high-school juniors and seniors and recent high-school graduates. The seminar allows students to examine the American political system through meetings with government decision makers and faculty of The American University.

Institutes

Institutes, featuring short-term credit and noncredit educational opportunities, are frequently offered during the summer by several academic units. The topics of these institutes vary widely and change from summer to summer.

Noncredit Programs

Noncredit programs are designed to help career persons stay abreast of new developments in their fields and to enhance the cultural and intellectual quality of life through liberal arts. Noncredit classes feature instructors from the university faculty and specialists from the Washington, D.C., area. These programs offer students the chance to meet with experts in an informal, discussion-oriented atmosphere.

In the liberal-arts offering the emphasis is on the arts and humanities, languages, and subjects of cultural interest. The Washington, D.C., area serves as a resource for these courses.

Noncredit professional-development certificate programs are offered in areas such as: volunteer management, marketing, business management, microcomputers, and entrepreneurship. Certificates show educational achievement in a specialized field. The programs offer a planned sequence of courses that are specifically designed to provide a thorough background of knowledge and practical experience in a seminar setting. For more information call the Office of Continuing Education at (202) 885-3960.

Institute for Learning in Retirement

The American University has become nationally recognized for its leadership in providing continuing learning opportunities for older adults. In 1982 the university established the Institute for Learning in Retirement (ILR), a membership organization for persons in the metropolitan Washington, D.C., area who want to remain intellectually active in their later years. The program has grown rapidly to its present size of 350 members.

The ILR offers a unique opportunity for persons who are over the age of 50, retired or semi-retired, who wish to continue their learning at the university level. Members of the institute are men and women with varied career backgrounds. They elect a governing council and, through committees, design their own curriculum of noncredit courses and plan a variety of special activities, including lectures, tours, and special interest groups.

The curriculum consists of two ten-week terms, fall and spring, offering about fifty study groups each term. Study groups meet for two hours once a week and cover a wide range of subjects, from foreign languages, history, and current events to music, art, and philosophy. Study group leaders are members of the ILR or volunteers with special expertise. Winter and summer inter-sessions provide additional opportunities for learning.

An annual membership fee entitles members to register in study groups without additional cost (except in certain special cases) and to participate in all other ILR activities. It also provides university privileges, including parking at a special rate; access to the library, dining hall, and swimming pool; and attendance at lectures and cultural events for free or at reduced rates. Information about membership is available by calling the Institute for Learning in Retirement at (202) 885-3920.

Learning in retirement

Special University Programs for Study and Research

Career Center

Executive Director Patricia T. van der Vorm

The Career Center offers integrated, comprehensive career services for American University students and alumni through its career education, cooperative education, and placement programs. The Career Center services are based on the philosophy that career education is a life-long effort and that students' direct interaction with employers through information sessions, interviews, and field experience is essential during the college years. The center offers a full range of introductory, exploratory, and developmental career services and programs. These include workshops, seminars, individual advising, and an extensive resource library. The center facilitates off-campus employment, including part-time and full-time jobs, Cooperative Education assignments, and internship listings. Career life-planning, skill-building, and job-hunting workshops, along with job listings and on-campus recruiting, are other activities of the center.

Career Education

Director Susan Murray

Career education offers career advising and training workshops and materials in résumé writing, interviewing, job search and skills assessment. The programs are designed to help students make a planned transition from college to work and take full advantage of Cooperative Education and career placement opportunities. For job-search assistance an extensive collection of career information, including company literature, directories, and an Alumni Resource Network, is available in the Career Resource Library. To help integrate education and career planning, the course 65.202 Career Education: You and Your Future is offered through the College of Arts and Sciences.

Cooperative Education Program

Director Barbara Taylor

In order to broaden both liberal education and professional training, the Cooperative Education Program provides students with field experience in jobs related to their academic programs and career goals. Participants may include one or more periods of work experience in their programs of study. Students earn degree credit for demonstrated experiential learning. Co-op placements are usually paid positions and can be full or part time. Positions may be with private business, local, state, or federal government, or community and social-service organizations.

Full-time faculty from nearly all university departments serve as faculty coordinators for the Cooperative Education Program. Faculty guide and evaluate the co-op students' experiential learning process.

Experiential education allows students to test previously acquired skills and academic learning in the laboratory of the world of work; it also provides for entirely new learning opportunities. Co-op experiences enable students to explore career possibilities, make career decisions, and prepare for entry into the professional job market. Personal development, acquisition of independent learning skills, and a better-balanced education are significant benefits to students participating in Cooperative Education.

Admission

The program is open to all matriculating undergraduate and graduate students in the College of Arts and Sciences, the College of Public and International Affairs, the Kogod College of Business Administration, and the Lucy Webb Hayes School of Nursing. Applicants must be in good academic standing and must obtain approval from appropriate academic advisers. Students must complete a full year as freshmen or a full semester as transfer or graduate students before they are eligible for placement. However, they may apply to the program at any time. Additional specific admission criteria may be stipulated by schools or departments.

Students attend an orientation session, complete application forms, and obtain approval signatures. Working with a co-op coordinator, qualified candidates are then referred to suitable employers for interviews. Students register in the program only if selected for a position.

Application to the program does not imply a guarantee of placement, nor does it obligate students to accept offers of employment. However, once hired under the auspices of the program, a student must complete all employment and academic obligations agreed to at the time of registration, unless a specific written release is obtained from the director of cooperative education on the recommendation of the faculty coordinator.

Degree Credit

Credit earned in the Cooperative Education Program may be applied as general elective credit to bachelor's and master's degree programs. Undergraduate students may earn up to eighteen semester hours in the program. Undergraduate students who wish to earn more than six hours of credit for a single assignment must petition for approval from the appropriate faculty member. Graduate students must be placed in jobs specifically related to their major fields and may earn up to six semester hours in the program, subject to the approval of their academic advisers.

All jobs are reviewed and approved for credit by faculty coordinators. The credit value generally depends on the duration of the work periods. Students are required to demonstrate what they have learned by means of written journals, papers, reports, portfolios, conferences, or seminars. Specific requirements are set by faculty coordinators and tailored to individual experience.

Students working full time under the program are considered full-time students by the university, and they may take no more than two additional courses during the co-op work term.

Enrollment

Students enroll in xx.392 Cooperative Education Field Experience (3-9) or xx.692 Cooperative Education Field Experience (3-6) during work placement periods.

Full-time placements may be for six-month periods (July through December or January through June) or for four-month periods (September through December, January through April, or May through August).

Special Programs

Cooperative Education College Work-Study Program This program provides off-campus placements to undergraduate and graduate students who qualify for federal financial aid. Applicants must complete an American University financial aid application and the Financial Aid Form (FAF). College work-study funds are awarded to subsidize salaries for co-op positions offered by a variety of nonprofit private and public employers serving in the public interest.

Cooperative Education in the Federal Government These experiences offer both undergraduate and graduate students special eligibility for noncompetitive appointments to career positions on successful completion of their degree programs. At the undergraduate level initial placements are open to sophomores and juniors only.

International Cooperative Education A limited number of cooperative education placements abroad is available. The placements are open to students who have completed two years of undergraduate study or one year of graduate study and have a 3.0 grade-point average. Students should have working knowledge of the language of the country in which they expect to be placed. Students also attend a seminar on working abroad.

Placement

Director Connie Heginbotham

Although starting and developing a career is ultimately the unique opportunity and responsibility of the individual, the Placement Office supports students as they seek permanent employment opportunities. The office helps students to learn more about the job market in general, identify employers and areas in which they would like to work, review listings of professional positions, and interview for permanent positions with recruiters who come to campus.

Specific activities of the Placement Office include on-campus recruiting, job listings and publications, bulletins, a credentials service, career-information programs, and special programming for some graduate programs. Every year for the last five years the placement office has increased the number of job listings, the number of employers coming to campus, and the employer contacts offered to students. These programs provide access to employment in a wide variety of industries, positions, and geographic locations.

In addition to listing full-time placement opportunities, the Career Center helps students support their studies by maintaining listings of part-time, temporary, and summer jobs on and off campus. Students interested in any of the part-time opportunities should inquire at the Career Center as soon after arriving on campus as possible.

University Honors Program

Director Kay Mussell

Limited to a select number of outstanding students, the University Honors Program offers seminar classes with some of the university's finest professors, unique access to the resources of Washington, D.C., and fellowship with other dedicated students. Admission to the program is determined by the honors director and an honors committee. Entering freshmen are selected for the program from among those students who have achieved a cumulative high-school index of 3.50, rank in the top ten percent of their graduating class, or have attained a combined SAT score of at least 1200. Other students, including transfer students, may be admitted to the program at the discretion of the honors committee, if they have achieved a cumulative college grade-point average of 3.50 on a 4.00 scale for the equivalent of at least one full semester of work (fifteen semester hours). Inquiries about admission to the program should be addressed to the director.

Educationally, the honors program offers its students a variety of special opportunities. Incoming freshmen may take an honors English seminar rather than the standard college writing class. After their first semester as freshmen, honors students may select one or more seminars each term as part of their normal course load; enrollment in these seminars is limited to a small number of honors students. The honors program also encourages its students to enroll in honors independent study courses, and to take part in research projects with faculty members for honors academic credit. In addition to these curricular opportunities, honors students may live on an honors dormitory floor and may participate in such activities as honors workshops, field trips, and social events with prominent members of the Washington community, university leaders, and the honors faculty. Honors students who successfully complete the program's requirements (four honors seminars and a required minimum grade-point average) are eligible to graduate with university honors (3.30), university honors with distinction (3.50), or university honors with high distinction (3.70).

Interdisciplinary Studies

Deans, College of Arts and Sciences, Kogod College of Business Administration, and the College of Public and International Affairs.

Academic Counselors/Coordinators (Available in the Dean's Office, College of Arts and Sciences, Kogod College of Business Administration, and the College of Public and International Affairs)

Academic counselors and a faculty coordinator in each dean's office counsel students in the formation of undergraduate and graduate, formal and informal interdisciplinary majors. Up-to-date information on all interdisciplinary activities can be obtained from the appropriate undergraduate or graduate dean's office.

B.A. or B.S. in Interdisciplinary Studies

This program is designed for students who wish to construct their own major programs of study in accordance with their needs, capabilities, and interests. The initiative in formulating an interdisciplinary major is left to the student. The student has the responsibility to determine the central concept around which the program is constructed and to formulate in writing a list of all courses—major, related, and tool—which are to serve as requirements for the program.

The student must secure the advice and approval of three faculty members: one major adviser, who must be a full-time faculty member, and two sponsors. The three faculty members should represent the various disciplines involved in the interdisciplinary field. The major faculty adviser will advise the student for the rest of the student's undergraduate career. The two sponsors will assist the major adviser in areas outside his or her field.

Admission to the Program

As a rule, final written application to the program and interviews should be made no later than the first semester of the junior year and no earlier than the second semester of the freshman year. Students must have at least a 2.50 grade-point average to be accepted. A student applies for permission to undertake an interdisciplinary major to the dean of the school or college in which he or she is enrolled. If the focus of the interdisciplinary program requires a change of college or school, the student must affiliate with the appropriate division.

An outline of the student's program submitted for approval must include:

1. A statement of the central concept of the major and an explanation of its interdisciplinary character.
2. A statement demonstrating that existing programs do not satisfy the educational needs or vocational goals of the student.
3. An outline of the academic requirements of the major, including a list of all required courses and a tentative schedule for their completion. Independent study courses must be outlined if included in the proposal.
4. A Declaration of Major form, which must specify the name of the major and whether a B.A. or a B.S. degree is to be awarded.

Majors

Individually designed majors focused on an interdisciplinary theme.

University Requirements

- A total of 120 semester hours.
- Six semester hours of required English.
- Twenty-four semester hours of distributive credit.
- English and mathematics competency.

  (See "Undergraduate Study" for details.)

Major Requirements

- A total of forty-two semester hours with grades of C or better including six semester hours of independent study or senior seminars and thirty-six hours selected to form an academically sound, unified, and well-defined program.

  The area of concentration may not be the focus of any current degree program offered by The American University, and the central concept must be interdisciplinary. A random collection of interesting courses taken from several departments does not constitute an acceptable interdisciplinary program. Each program should be designed to give the student the fundamental skills and background knowledge relevant to the specific interdisciplinary area. Courses which a student has already taken at The American University, or which the university has accepted in transfer, may be counted as part of the interdisciplinary major requirements when they are clearly within the proposed interdisciplinary field.

- Six semester hours in two independent study courses or senior seminars under the direction of the major adviser constructed to unite the various aspects of the interdisciplinary program. With the adviser's approval, the student may substitute an internship course under the adviser's direction, a 500-level seminar, or cooperative education experience for one of the two special courses.
- Twenty-seven of the remaining thirty-six semester hours must be upper level (as defined by the teaching units that offer them), and it is usually advisable to include at least two 500-level courses, although in certain cases this may not be possible.

A maximum of eighteen semester hours of work completed prior to the semester in which application is made may be included in the program.

See Also: B.A. in Communication, Legal Institutions, Economics, and Government (School of Government and Public Administration); B.A. in Law and Society (School of Justice).

Minor in Interdisciplinary Studies

Individually designed minors focused on an interdisciplinary theme.

Admission to the Program

Admission to an interdisciplinary minor is governed by the same considerations as stated above for interdisciplinary

majors except that approval is required by two rather than three faculty members. The academic coordinator for interdisciplinary studies is available to assist students in formulating interdisciplinary minor programs.

Requirements

- A total of twenty-four semester hours of course work selected to form an academically sound, unified, and well-defined program. The area of concentration may not be the focus of any current degree program offered by The American University, and the central concept must be interdisciplinary.
- Twelve of the twenty-four semester hours must be taken at the 300 or 400 level.

In addition to the twenty-four semester hours of course work, the student may unify the minor by taking three semester hours of independent study or research, senior seminars, or cooperative education experience focused on the central concept of the minor.

No more than six semester hours of courses used to satisfy the distributive requirement may be used to satisfy the requirements of the interdisciplinary minor. Courses used to satisfy the university English requirement may not be used to satisfy the requirements of the interdisciplinary minor.

See Also: Minor in Russian Studies (Language and Foreign Studies).

M.A. or M.S. in Interdisciplinary Studies

Admission to the Program

Graduate students interested in constructing an interdisciplinary master's program must first be admitted to a school or college or teaching unit of the university. In applying for admission, prospective graduate students may inform the faculty and teaching units of their interdisciplinary goals. In this manner the student unofficially explores the possibilities of obtaining faculty support for the desired interdisciplinary program.

Graduate students interested in this program should complete a major program form available in the office of the dean of the college. This completed form, along with a written statement of the concept of the program, and the letter of admission to a school or department of the university will serve as the admission packet for entrance to the program. Once this packet receives the approval of the dean of the college to which the student has been admitted, it will serve as the official record of the student's interdisciplinary master's program.

All programs must have the approval of three faculty members, at least one from each of the two or more disciplines involved in the interdisciplinary field. The responsibility for securing the advice and signature of the three faculty members is left with the student in consultation with the office of the dean of the college. The student should select one of the faculty advisers, who must be from the admitting school (or department, if the student is admitted by the College of Arts and Sciences), as the primary adviser.

Majors

Individually designed majors focused on an interdisciplinary theme.

Degree and Major Requirements

- A total of thirty semester hours of graduate work for the master's degree, including six semester hours of research credit either in writing a thesis or in completing special research seminars.

  At least twenty-four of the thirty semester hours, including the thesis or research sequence, must be completed in residence.

  The individually designed interdisciplinary master's program allows graduate students to design their own M.A. or M.S. programs built around a central theme that cuts across various disciplines. Every program must form an academically sound area of concentration defined by a central concept. The area of study must not duplicate the program of any master's degree offered by the university. The central concept must be explained in a written statement attached to the application for approval of the master's program.

- One comprehensive examination.

  The subject and scope of the examination is determined by the student and advisers at the time of initial approval of the interdisciplinary field. A statement detailing the provisions for the examination (who will draw it up, areas covered, and who will evaluate it) must be submitted with the application to the office of the dean of the college. Unless otherwise indicated, the faculty who approve the program take responsibility for drawing up, administering, and evaluating the comprehensive examination.

- Thesis option: six semester hours of thesis research.

  Nonthesis option: two research seminars for six semester hours at the 500 level or above with a grade of B or better. These research-oriented courses should serve to unify the elements of the program.

  Students must specify which option has been chosen and indicate which courses will be taken (for the nonthesis option), or the subject of the thesis and members of the thesis committee (for the thesis option).

See Also: M.S. in Interdisciplinary Studies: Environmental Toxicology (Department of Biology).

Study Abroad Programs

Dean David C. Brown

Director Shaik L. Ismail

Study abroad programs through the American University provide students the opportunity to interact with public officials and political leaders through seminars. Programs in

London, Brussels, Vienna, Bonn, Jamaica, and Buenos Aires offer internship opportunities in houses of parliament, government agencies, corporations, and other political and social organizations. Programs in Rome, Poland, and Copenhagen allow students to select from a variety of liberal arts courses taught by European professors.

The London Semester

The semester in London is offered every fall and spring. The program, which is patterned on the Washington Semester model, focuses on British political and economic institutions through seminars with decision makers and observers of British politics. In addition to the seminars, the program includes an internship component, a course on British theatre, and living with English host families. Through seminars, class discussions, lectures, and focused readings, the program provides a perspective of British society, politics, economics, and culture. Seminar topics include issues in British politics and society, Parliament, the cabinet and ministries, political parties, interest groups, the media, and the judicial process. Students in this program are accompanied by a member of the American University faculty.

The Rome Semester

The Rome program offers a semester or year of study with emphasis on European and Italian subjects. All courses are taught in English and are offered during the fall and spring semesters. The program provides instruction in socio-economic and political systems, art and architecture, history, and culture. Students also benefit from cross-cultural interactions with Italian student groups. Classes are frequently conducted in political party headquarters, on location with leading personalities of Italian film, art, and literature, and in museums and historical sites in and around Rome. All courses and faculty in the program are approved by The American University. Students can take courses in many fields, including history, art, political science, literature, Italian language, sociology, mathematics, and economics.

The Copenhagen Semester

The Copenhagen Semester is offered in cooperation with Denmark's International Study Program at the University of Copenhagen. Students can choose from a wide range of courses in general studies or international business that have Danish, Scandinavian, or European content and methods. The general studies curriculum includes such courses as Scandinavian Literature and Drama, Contemporary European Politics, Society and Culture of the Greenland Eskimo, and Education in Denmark. Students may enroll in such international business courses as European Integration, Marketing in Europe, and East-West Business Relations. All classes are taught in English. The program is offered during fall and spring semesters for twelve to fifteen semester hours.

The Brussels Semester

This program, offered every fall and spring, is patterned on the Washington Semester model in that students have the opportunity to interact with foreign politicians and decision makers through seminars. Seminar topics include issues and problems in NATO strategy and burden-sharing; European defense and political cooperation; U.S., Europe, and detente; the Mutual and Balanced Force Reduction Negotiations; intermediate range nuclear forces; NATO's dual track decision and arms control; East-West trade, and international economic issues. The program also includes internships with multinational corporations and a course on U.S.–Western European economic and trade relations. Participants in the program are accompanied by a member of the American University faculty.

Vienna Programs

The Vienna Semester, offered every fall and spring, is similar to the programs in London and Brussels in that participants have the opportunity to meet with representatives from the political arena, the diplomatic corps, industry, the press, and cultural organizations, and to attend focused lectures by the resident director. Participants with German-language proficiency can intern with the Austrian Parliament or agencies of the United Nations. Others can take up to twelve semester hours of intensive German.

The Germany Semester

This program, offered every fall, provides a focus on the politics, economics, culture, history, and society of the Federal Republic of Germany. In addition to lectures and discussions by the resident faculty member, invitations are extended to four or five guest speakers each week. All lectures and seminars are conducted in English. As in the Vienna program, students with German-language proficiency can do an internship with the Bundestag while others take intensive German.

Program in Poland

This semester or year-long program is offered at the Adam Mickiewicz University in Poznan. The program offers a broad range of subjects taught in English in small groups and tutorials. In addition, students have the opportunity to study Polish, Russian, German, and other languages at this university, which is recognized for its strength in languages and linguistics as well as the social sciences and humanities.

The Buenos Aires Semester

Patterned after the other study abroad programs, the Buenos Aires Semester, offered every fall, focuses on the political, social, economic, and international problems confronting Argentina and the region. In addition to seminars and lectures, participants have the opportunity to take a course on Argentine history and a course in intensive Spanish. Those with a working knowledge of Spanish can participate in the internship component, working two days each week with one of many domestic and international organizations.

The Caribbean Semester

Patterned after the other study abroad programs, the Caribbean Semester is offered every spring at The University of West Indies in Mona, Kingston. In addition to seminar speakers drawn from the public and private sectors in Jamaica, students have the opportunity to intern with such organizations as The Bank of Jamaica, Ministry of Justice, United Nations Development Programme, and the United States Embassy.

Summer Study Abroad

Opportunities for study abroad are offered by American University professors through courses and institutes in their fields. Students have the opportunity to pursue particular themes in these programs. While programs may change from one summer to the next, the university usually offers three or four programs each summer in Europe and other parts of the world.

Washington Semester Program

Dean David C. Brown

Director James L. Narduzzi

Established in 1947, the Washington Semester Program provides intercollegiate programs for study in Washington of various aspects of public affairs. More than 350 students from over 200 colleges and The American University meet each semester to pursue full programs of seminars with decision makers and people involved in the policy process. Students also undertake an internship in their field of interest and complete either an intensive research project or a course elective from regular university offerings.

The Washington Semester in American National Government and Politics

This is the original program and covers the American national governmental and political system as a whole. Institutions covered include the Congress, the executive branch, parties and interest groups, the courts, and the communications media. The program is taught by members of the faculty of the School of Government and Public Administration of the College of Public and International Affairs.

The Foreign Policy Semester

Originated as the Washington International Semester in the fall of 1970, the Foreign Policy Semester is taught by faculty from the School of International Service of the College of Public and International Affairs and, like the American National Government Semester, is open to students from both The American University and member colleges. The Foreign Policy Semester provides students with an opportunity to observe and study the manifold governmental, international, and private activities which contribute to the United States' position in world affairs.

The Washington Economic Policy Semester

Taught by faculty from the Department of Economics of the College of Arts and Sciences, this is an intensive examination of the macro and micro dimensions of policy making in the national capital. The program is designed for students with an interest in practical as well as theoretical matters. The focus is on stabilization policy in all of its aspects—theoretical, practical, and political; environmental and energy economics; the international economy and recent developments in the international monetary field; and the effects of the multinational corporation. Additional topics include tax policy, poverty and the attempts to reduce it, antitrust actions and the role of big business, and urban economic policy. The program is open to students from The American University and member colleges of the Washington Semester Program.

The Washington Justice Semester

Taught by faculty from the School of Justice, this program provides a realistic picture of the processes of the criminal justice system. The program focuses on the interrelationships of the institutions operating in the criminal justice system (law enforcement, courts, corrections); the various occupational specialties; the problems of civil justice systems; the role of research; and the local, national, and international levels of the justice system.

The Washington Journalism Semester

The School of Communication offers this intensive study of journalism in Washington, D.C. The news stories and issues that make up Washington journalism and the people and institutions that cover them are the focus of this one-semester program. The program is open to students from the American University and member colleges of the Washington Semester Program.

The Washington Semester Summer Internship Program

Students from colleges and universities across the United States are offered the opportunity to gain career-related, on-the-job experience through working and learning in the nation's capital. Students intern with a professional or government office for five days a week and attend an academic course in conjunction with the work experience. The program is open to students who are not currently enrolled at The American University. American University students should consult their academic departments concerning summer internship opportunities. The program is offered every summer.

The Washington Summer Seminar

The Washington Summer Seminar is a field study of the major components of American national government and the political processes that support and affect it. It is open to high-school juniors and seniors who receive advance college credit on completion of seminar requirements. Students attend seminars with public officials and practitioners, as well as lectures given by American University faculty. The program is offered every summer, with a two-week session offered in both June and July. Two semester hours of credit are awarded for the seminar.

The Washington Journalism Institute

The Washington Journalism Institute is a two-week institute for high-school students studying practical journalism. Through a series of writing laboratories and seminars on reporting, newspaper layout and design, and editing and interviewing, students learn effective newspaper writing skills. Seminars are conducted with members of the Washington press corps on contemporary professional journalism. Two semester hours of credit are awarded on completion of the institute requirements. Laboratories and skill

seminars are conducted by American University faculty. The institute is offered every summer in both June and July.

Other Programs

The National Center for Business and Economic Communication (NCBEC)

The National Center for Business and Economic Communication was established at The American University in 1979 as an independent forum where educators, media leaders, business and labor representatives, and students can interact for the purpose of improving business and economic news reporting. The center focuses on all three of the pertinent areas of news formation and dissemination: journalism education, current reporting practice, and business and labor communication.

For further information, write to the Director, The National Center for Business and Economic Communication, The American University, Washington, D.C. 20016.

The Business Council for International Understanding (BCIU) Institute

Since 1958 The Business Council for International Understanding Institute at The American University has been training and developing U.S. and foreign business personnel and their families for work and life in other cultures. The BCIU Institute provides workshops weekly for corporate personnel and their families from 300 major international corporations and has had more than 20,000 graduates living in 135 countries throughout the world. Programs consist of face-to-face language instruction in 43 languages integrated into intercultural communications workshops for 135 countries. In-company programs are conducted for recruiters, managers, and trainers in organization development, international business personnel assessment, government-business relations, intercultural communications, international business negotiations, international business protocol, business English communications and presentation, and area/country studies. All programs have varying degrees of intercultural communications. The faculty of resource persons number over 600 experts coming from The American University and other universities, governmental agencies, international organizations, and international business corporations. The BCIU Institute reflects and has advanced the state of the art in intercultural communications for international business effectiveness overseas.

For additional information, write to the Director, The BCIU Institute, The American University, Washington, D.C. 20016.

ROTC

Reserve Officer Training Corps (ROTC) programs at Georgetown, Howard, and George Washington universities are available to American University students when they register through the Consortium of Universities of the Washington Metropolitan Area. Georgetown University offers Army ROTC courses in military science. Howard University offers Air Force ROTC courses in aerospace science. George Washington University offers Naval ROTC courses.

CBS reporter Sam Donaldson addresses Washington Semester students.

Courses of Instruction

Cooperative Education Program

Undergraduate

xx.392 Cooperative Education Field Experience (3–9) May be repeated for credit, but not in the same term; topic must be different. Offered every term. *Prerequisite:* completion of thirty semester hours of college courses, good academic standing with the university, approval of academic adviser, and placement by the co-op office.

Graduate

xx.692 Cooperative Education Field Experience (3–6) May be repeated for credit, but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* completion of nine semester hours of course work, good academic standing with the university, and approval of academic adviser, and placement by the co-op office.

University Honors Program

01.200 Honors Seminar in Arts and Humanities /A (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.201 Honors Seminar in Natural and Mathematical Sciences /N (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.202 Honors Seminar in Social Sciences /S (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of program director.

01.300 Honors Colloquium in Arts and Humanities /A (3) May be repeated for credit in the same term; topic must be different. *Prerequisite:* permission of the program director.

01.301 Honors Colloquium in Natural and Mathematical Sciences /N (3) May be repeated for credit in the same term; topic must be different. *Prerequisite:* permission of the program director.

01.302 Honors Colloquium in Social Sciences /S (3) May be repeated for credit in the same term; topic must be different. *Prerequisite:* permission of the program director.

01.390 Honors Independent Reading Course (1–6)

01.490 Honors Independent Study Project (1–6)

American Studies

Undergraduate Courses

02.100 Creativity in American Life (3) How Americans build traditions, create community, register rebellion, cope with contradictions, and dramatize shared values through expressive culture. Rotating topics include folk traditions, festival and ceremony, symbols and icons, forms of wisdom, musical traditions, nostalgia, and advertising as metaphor. Each topic examines the complex relationships among the arts, their producers and performers, the audience, special occasions, and everyday life. May be repeated for credit within the same term; topic must be different. Usually offered every fall.

02.140 Washington, D.C.: Life inside a Monument /S (3) The unique nature of Washington as an international city, national capital, black American cultural center, and home for its varied residents. Tensions between federal presence and local democracy. Tourism, political and cultural activities, migration and immigration, geography and the cityscape, neighborhood life. Usually offered every spring.

02.202 American Dream/American Life /A, S (3) Changing American ideals and experiences. An interdisciplinary study of key themes in American self-definition (e.g., equality, opportunity, the changing landscape) as articulated by theorists and as challenged by an increasingly diverse urban and technological nation. Emphasis on ordinary citizens as well as institutions. Usually offered every fall.

02.320 Poverty and Wealth in America /S (3) Historical and contemporary explanations for wealth and poverty in the United States. Myths and symbols surrounding the rich and the poor in art, music, politics, film, and literature. How poverty and wealth shape family and community life, friendship, the use of time and space, artistic traditions, rituals, and the life course.

02.321 American Decades /A, S (3) Political and economic affairs, international relations, social change, literature, drama, music, and fine and popular arts in one decade of American life. May be repeated for credit in the same term; topic must be different.

02.324 Reinventing American Families /S (3) Interplay in American life among symbols of proper families, ideas about what is natural, and Americans' diverse choices, commitments, and experiences as they make homes together. Topics include adoption, step-kinship, gay parents, single parents, class differences, ethnic variety, public policy implications.

02.325 The Sacred and the Profane in American Life /S (3) Ritual and taboo as replacing the sacred and profane in secular society. Rituals include holidays, myths, heroes, sports, public and intimate interactions, and music. Taboos cover animals and nature, freaks, stigma, the human body, sexuality, madness and suicide, drugs, violence, and death.

02.334 Contemporary American Culture /A (3) Interdisciplinary exploration, through politics, ethnography, literature, film, and art, of institutions and attitudes with decisive influence on the shape and quality of contemporary American culture. Rotating topics include work, violence, visions of the future, the culture business, women and men, women in the popular media, language in the United States, and the American Indian experience.

02.341 Research on the City of Washington (1–6) Student group research on special topics and projects in Washington. Usually offered every term. *Prerequisite:* junior standing or one previous course in American studies, history, or literature.

02.390 Independent Reading Course in American Studies (1–6)

02.400 Interpreting American Culture (4) Seminar in American Studies theory and methods. Classic, emerging, and controversial approaches to American culture through such mixed media as architecture and photography, original documents and literary criticism, folklife and foodways, television and music. Usually offered alternate springs.

02.410 Senior Thesis I (3) Original interdisciplinary research as a capstone to the major. Students also meet in a seminar to compare experiences and discuss ways to translate American Studies theory and method into practical and professional concerns. Usually offered every fall. *Prerequisite:* 02.400

02.411 Senior Thesis II (3) Usually offered every spring. *Prerequisite:* 02.400.

02.490 Independent Study Project in American Studies (1–6)

02.491 Internship in American Studies (1–6) Practical experience in a local organization such as a government office, museum, arts agency, or social action group. How to translate American Studies theory and method into professional skills and opportunities. Interns also meet in a seminar to discuss and interpret these experiences.

Graduate and Advanced Undergraduate Course

02.590 Independent Reading Course in American Studies (1–6)

Anthropology

Undergraduate Courses

03.100 Cultures of the World /S (3) Exploration of human possibilities to help us understand universal problems that underlie cultural diversity and shape human experience. The course depicts the extraordinary variety of cultures as well as what all cultures have in common, and helps students appreciate other cultures on their own terms. May be repeated for credit within the same term; topic must be different. Usually offered every term.

03.201 Cultural Anthropology /S (3) An exploration of cultures to document their critical importance as the unique tool of human survival. The course provides the framework for an appreciation of cultural differences and similarities and thereby increases understanding of the complex world we must cope with. Usually offered every term.

03.202 Human Origins /N (3) The contributions that physical anthropology and archaeology can make toward an understanding of the origins and development of humankind. Topics include genetics, the principles of evolution as applied to humans, the nonhuman primates and their behavior, human fossils, and the archaeology of the New and Old Worlds. Usually offered every term.

03.331 Human Variation /N (3) Human variety is a factor in our remarkable evolutionary success. Race, age, growth, sex, blood groups, disease, and other factors are studied in regard to their contribution to human variation. Usually offered every spring.

03.334 Modern Archaeology (3) Aims and methods of archaeology as a subfield of anthropology. Consideration of archaeological evidence, data acquisition, dating, technical-typological analysis, and the means to interpret archaeological data for understanding cultural systems. Usually offered every fall. *Prerequisite:* 03.202 or permission of instructor.

03.335 Culture and Personality /S (3) An exploration of the ways that cultural forces influence biographical pathways, life experiences, the patterning and expression of emotions, the experience of mental illness. Emphasis on the emergence of the self in everyday interaction and at the intersection of language and thought.

03.336 Social Structure (3) Comparative study of structure and function of political, religious, and kinship arrangements in simple and complex societies. Topical emphasis varies for different semesters. Emphasis on conflict and integration, ideas and beliefs as symbols of social relations, and problems of individual choice.

03.337 Anthropology of Language (3) Examines language as a major cultural system reflecting the social structure of speech communities and the uses of this information for problem solving. Exploration of regularity and variation within speech communities, the role of language in socialization, and historical linguistics. Descriptive linguistics and transcription introduce students to field research methods. Usually offered every fall. *Prerequisite:* 03.201 or permission of instructor.

03.338 The City as Community: Anthropology of Urban Life /S (3) Reading and discussion of anthropological writings dealing with neighborhoods, ethnic communities, cities

as migrant havens, and urban poverty and urban hopes as found within different urban areas around the world. The class develops and jointly carries out an urban-oriented research project that tests and refines some of these general claims against conditions within the District of Columbia metropolitan area. Offered alternate springs. *Prerequisite:* one course in social or cultural anthropology or sociology.

03.339 Culture Area Analysis /S (3) Examinations of particular culture areas to provide insight into the conditions that produced distinctive cultures in certain geographical regions. Examples are North American Indians, South America, Mexico and Central America, North American ethnic groups, American culture and society, Europe, India, Southeast Asia, Africa, China, and Japan. May be repeated for credit in the same term; topic must be different. Meets with 03.639. Usually offered every term.

03.340 Sex, Gender, and Culture (3) Explores the varied ways in which societies define male and female and their social roles. Examples come from different cultures of the world to show variations and similarities in cross-cultural gender roles. Offered irregularly.

03.341 Culture and Poverty (3) Explores the ways that poverty batters culture and how people cope with poverty, bend its constraints, create alternative cultural traditions, and fight for social change. Considers the influence of poverty on family, community, sex roles, the life course, and world view. Usually offered alternate falls.

03.342 Women and Work (3) Work roles of women throughout the world. Analyzes historical and contemporary changes in the notion of work and women's labor in tribal societies and in Western societies since the industrial revolution. Topics include unpaid work within the household and for family enterprises, as well as formal salaried enterprises. Offered irregularly.

03.390 Independent Reading Course in Anthropology (1–6)

03.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication.

03.430 Magic, Witchcraft, and Religion /A (3) A comparative study of magic, witchcraft, and religion in Western and non-Western societies. Topics include an analysis of ritual behavior and the ritual process, mythology, sorcery, and revitalization movements. Usually offered alternate springs.

03.431 Taboos (3) Exploration of those persons, items, experiences, and acts which so frighten and repel humans that they try to prohibit them. Includes discussion of topics rich in taboo and sensitivity, including: sexuality, witchcraft, cannibalism, human-animal relations, madness, and death. Why taboos emerge, how they are enforced, and when they are violated. Usually offered alternate springs.

03.433 Anthropology of Art in Washington /A, S (3) Anthropological exploration of art and crafts in the Museum of African Art, Dumbarton Oaks, Textile Museum, Smithsonian, and elsewhere. Use of special exhibits in other galleries and ethnic centers. Preparation for field studies through readings and slides. Usually offered every fall.

03.490 Independent Study Project in Anthropology (1–6)

03.491 Internship in Anthropology (1–6) Experience in local agencies involving the transfer of anthropological thinking to practical concerns. Usually offered every term. *Prerequisite:* permission of department chair.

03.498 Senior Thesis in Anthropology (1–6) Opportunity for qualified undergraduates to carry out anthropological research under supervision of members of the faculty. Development of a written paper and participation in senior thesis seminar are required. A maximum of six semester hours may be earned under this course number. May be repeated for credit but not within the same term. Usually offered every term. *Prerequisite:* permission of department chair.

Graduate and Advanced Undergraduate Courses

03.531 Archaeology (3) Topical courses in archaeology. Areas and topics offered include: historical archaeology, artifact analysis, archaeology of the Potomac Valley, the archaeology of North America and Mesoamerica, and archaeological laboratory practice. May be repeated for credit within the same term; topic must be different. *Prerequisite:* 03.334 or permission of instructor.

03.532 Culture Change (3) Analysis of processes involved in stabilization, conflict, and change. Differential learning, innovation, and variation. The effect of change on individuals, cultures, and specific and general evolution. Culture contact, acculturation, revitalization, and modernization. Anthropological insights for projecting and planning future developments. Usually offered every fall. *Prerequisite:* 03.201, one additional course in cultural anthropology, or graduate standing.

03.533 Complex Societies (3) To understand complex societies adequately, anthropologists have developed new methods of data collection and analysis to supplement the more traditional methods used when studying "exotic" or "primitive" societies. This course focuses on the research methods anthropologists use when studying complex societies and the cultural institutions within them, and it examines the facts anthropologists learn when complex societies are analyzed in terms of those methods. Offered irregularly.

03.534 Economic Anthropology (3) Discussion of the principal issues linking anthropological method and theory to the nature and organization of production, distribution, and consumption in Western and non-Western society. Substantive and formalist approaches to the description of economic institutions. Subsistence and commercial production, reciprocity and redistribution, market exchange, and aspects of consumption are examined with reference to a variety of case studies. Usually offered alternate springs. *Prerequisite:* 03.201, one other course in cultural/social anthropology or permission of instructor.

03.535 Ethnicity (3) Ethnicity. Ethnic identity. Ethnocide. We react to these terms with emotions ranging from pleasure and pride to horror. Ethnicity all over the world has become a means whereby groups in large, complex societies defend their interests, avoid alienation, and create powerful rituals of self-preservation and defense. African, European, and American ethnic attitudes and experiences are discussed and compared to illustrate these themes. Usually offered alternate falls. *Prerequisite:* One course in social or cultural anthropology, e.g. 03.201.

03.537 Language and Culture (3) The interrelationship of social and linguistic patterns in cultures. Sociolinguistic issues include linguistic variation and bilingualism as related

to social strata, ethnic differences, colonialism, and nation building. Ethno-semantics, ethnography of communication, and metalinguistic questions are explored. Usually offered every spring. *Prerequisite:* permission of instructor or one course in anthropology or linguistics.

03.542 Principles of Applied Anthropology (3) The role of anthropology in formulating policy and implementing social and cultural change, and in community self-determination, health, education, urban and ethnic affairs, poverty, and crime. Usually offered every fall.

03.543 Anthropology of Development (3) Anthropological approaches to the analysis of economic development and change, with attention both to development theory and to practice. Development problems as perceived at the local level, contemporary development concerns, and the organization of development agencies and projects are considered. Usually offered every fall.

03.544 Topics in Applied Anthropology (3) A discussion of case studies and examples illustrating the application of anthropological method and theory to solving practical problems in contemporary society. Regularly recurring topics include: anthropology of education, bilingual education, medical anthropology, health and nutrition, public archaeology, and anthropology of public policy. May be repeated for credit in the same term; topic must be different.

03.545 Developments in Anthropological Theory (3) Current theory and its historic roots. A capstone course drawing on method and theory in archaeology, linguistics, sociocultural anthropology, and physical anthropology. Usually offered every spring. *Prerequisite:* senior in anthropology or graduate standing.

03.550 Ethnographic Research Methods (3) A series of research exercises. Students learn how to collect genealogies, gather censuses of research populations, conduct directed and nondirected interviews, map research areas, work with photographic data, collect life histories, observe as participants, write research proposals, and evaluate data. Ethical and methodological fieldwork problems are stressed throughout. Usually offered alternate springs.

03.552 Quantitative and Qualitative Analysis (3) Anthropological data analysis using both quantitative and qualitative techniques. What the data are and how they are collected and analyzed. The course includes a brief introduction to computing in anthropology, including experience with interactive computer terminals. Usually offered every spring.

03.553 Data Banking and Multivariate Techniques (3) A consideration of storing and retrieving anthropological data and analysis. Both small and large scale data banks are studied. Analysis of the retrieved data using such techniques as factor, cluster, and proximity analysis is also covered, with a consideration of computer graphics for anthropological use. Usually offered alternate falls. *Prerequisite:* 03.552 or permission of instructor.

03.560 Summer Field School: Archaeology (3–9) Active participation in the excavation of an archaeological site. Training varies depending on the site, but usually includes site surveying, archaeological engineering, techniques of excavation, flora, fauna, and soil analysis, field laboratory practice, and on-site computer data processing. May be repeated for credit but not in the same term; topic may be the same. Usually offered every summer.

03.590 Independent Reading Course in Anthropology (1–6)

Graduate Courses

03.631 Proseminar: Cultural and Social Anthropology (3) A graduate-level overview of both the history of cultural and social theories and methods and the contemporary concerns of anthropology. Usually required of all incoming graduate students; consult the department chair. Usually offered every fall. *Prerequisite:* graduate standing.

03.634 Proseminar: Archaeology and Physical Anthropology (3) A graduate-level overview of recent work, focusing on archaeological data—their nature, strengths and weaknesses, collection, analysis, and application to anthropological goals. Also considers the role of physical anthropology in the discipline. Usually required of all incoming graduate students; consult the department chair. Usually offered every spring. *Prerequisite:* graduate standing.

03.637 Proseminar: Anthropological Linguistics (3) An overview of major topics in linguistic science as they relate to general anthropological method and theory. Usually required of all incoming graduate students; consult the department chair. Usually offered every fall. *Prerequisite:* graduate standing.

03.639 Culture Area Analysis (3) Examinations of particular culture areas to provide insight into the conditions that produced distinctive cultures in certain geographical regions. Examples are North American Indians, South America, Mexico and Central America, North American ethnic groups, American culture and society, Europe, India, Southeast Asia, Africa, China, and Japan. May be repeated for credit in the same term; topic must be different. Meets with 03.339. Usually offered every term.

03.640 Current Issues in Anthropology (3) Seminar discussion of a particular problem of contemporary interest and its relationship to anthropological method and theory. Topic changes each semester. Regularly offered topics include: rural anthropology, structural analysis, myth and symbolism, culture and cognition, human ecology, urbanization, origins of the state, and migrations. May be repeated for credit in the same term; topic must be different.

03.690 Independent Study Project in Anthropology (1–6)

03.691 Internship in Anthropology (1–6) Experience in local agencies involving the transfer of anthropological thinking to practical concerns. Usually offered every term. *Prerequisite:* permission of department chair.

03.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

03.797 Master's Thesis Seminar (1–6)

03.799 Doctoral Dissertation Seminar (1–24)

Art

Studio

Undergraduate Courses

05.104 Principles of Visual Form /A (3) Develops visual perception and presents formal and theoretical background

necessary to understand painting, sculpture, and architecture. Lectures and group discussion of visual material. Usually offered every term.

05.120 Fundamentals of Painting /A (3) Basic training in translating perception into the formal language of painting. Usually offered every term.

05.121 Fundamentals of Drawing /A (3) Basic training in the nature of drawing, including familiarity with its elements and various media. Still life, figure, and abstract. Usually offered every term.

05.122 Fundamentals of Sculpture /A (3) Basic training in the nature of sculpture, including familiarity with its elements and media. Portrait, figure, and abstraction. Usually offered every term.

05.150 Introduction to Design: Color /A (3) Study of properties of color and of color juxtapositions and interaction. Usually offered every term.

05.151 Introduction to Design: Two-Dimensional /A (3) Fundamentals of space, color, and form relationships in graphic design. Usually offered every term.

05.158 Introduction to Design: Three-Dimensional (3) Examination of three-dimensional and structural concepts. Organization of space through construction in a variety of materials. Usually offered every fall.

05.310 The History of Graphic Design (3) Graphic images have been used from prehistory to the computer age. A lecture-and-studio format presents the historical background for the graphic arts of calligraphy, typography, book design, mapping, diagramming, and illustration. Emphasis is put on the relationship of these applied arts to the fine arts, technology, and social history of the period as well as on the application of this visual language to contemporary design problems. Usually offered every fall. *Prerequisite:* general art survey or equivalent recommended.

05.320 Creative Painting (2–3) Studies in color, composition, and drawing from still life and figure. Individually assigned projects. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.120 or equivalent.

05.322 Special Studies in Painting (2–3) Various and specific painting subjects, approaches, or problems (such as portraiture, landscape, abstraction, color, composition) are studied singly and in depth for one semester on a rotating topical basis. May be repeated for credit but not in the same term; topic must be different. May be counted only once to satisfy a painting concentration. Usually offered every term. *Prerequisite:* 05.320, which may be taken concurrently, or equivalent.

05.340 Sculpture (2–3) Problems and principles of sculpture. Acquaintance with tools, techniques, and materials for plastic expression. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.122 or equivalent.

05.344 Ceramics (3) Basic principles of working with clay. Instruction both in wheel and in other methods of making pottery. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

05.348 Design Techniques I (3) Exploration and analysis of graphic means for design presentation. Usually offered every term. *Prerequisite:* 05.151 or concurrent registration.

05.349 Design Techniques II (3) Exploration and analysis of graphic means and structures for design presentation. Usually offered every term. *Prerequisite:* 05.348 and 05.150 or concurrent registration.

05.352 Typography: Theory and Practice (3) Theory and analysis of letter forms as design and symbol. Study of type faces, arrangement, and setting. Usually offered every fall. *Prerequisite:* 05.348 or permission of instructor.

05.353 Typography: Color and Design (3) An exploration of structure, space, and color in visual communications through the study of type faces and the arrangement of words. *Prerequisite:* 05.348, 05.349, or permission of instructor.

05.354 Production for Graphic Designers (3) An introduction to the technical procedures that translate graphic design from an idea to a printed piece. Includes development of comprehensive sketches, preparation of mechanicals, paper and ink selection, color separation, and printing procedures. Lecture, studio projects, and local field trips. Usually offered every fall and summer. *Prerequisites:* 05.348 and 05.352 or 05.353 or departmental permission.

05.356 Advanced Design I (3) Experimentation and practice in design problems relating to visual communication; emphasis on techniques and solutions of professional problems. Usually offered every fall. *Prerequisite:* 05.352 and 05.353 or permission of instructor.

05.357 Advanced Design II (3) Practical consideration and execution of complex design problems involving previous design training and preparation of portfolios. Usually offered every spring. *Prerequisite:* 05.356 or permission of instructor.

05.359 Illustration (3) Basic black-and-white illustration techniques including representational drawing and pictograms. Emphasis is on adaptation of illustration to reproduction. Usually offered every spring. *Prerequisite:* 05.348 or 05.349 or two drawing courses or permission of instructor.

05.360 Drawing (3) Structural drawing from the human figure. Movement, expression. Range of techniques and media. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.121 or equivalent.

05.364 Printmaking: Woodcut and Surface Print (3) Woodcut and relief print as media of creative expression. Emphasis on experimentation and control. Usually offered every term. *Prerequisite:* two drawing courses or one drawing and one design course.

05.390 Independent Reading Course in Art (1–6)

05.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication. *Prerequisite:* completion of thirty semester hours of course work and permission of director.

05.490 Independent Study Project in Art (1–6)

05.491 Internship (3) Usually offered every term. *Prerequisite:* approval of adviser and department chair.

Graduate and Advanced Undergraduate Courses

05.520 Techniques of Etching (3) Investigation of etching and its various techniques. May be repeated for credit but

not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 05.364 or two courses in drawing.

05.533 Materials and Techniques of Painting (3) Technical investigation of painting methods from the Renaissance to the present. Preparing grounds, media, underpainting, glazing, emulsions for tempera, etc. Usually offered every fall. *Prerequisite:* four painting courses or permission of instructor.

05.560 Drawing (3) Experiments in the creative and expressive qualities of drawing. Personal creative expression. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of instructor.

05.590 Independent Reading Course in Art (1–6)

Graduate Courses

05.690 Independent Study Project in Art (1–6)

05.691 Internship (3) Usually offered every term. *Prerequisite:* approval of adviser and department chair.

05.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication. *Prerequisite:* completion of nine semester hours of course work and permission of instructor.

05.700 Criticism of Painting (3) A theoretical and philosophical consideration of painting. Detailed analysis of artistic works. Lecture and slides. Usually offered every spring. *Prerequisite:* admission to graduate program in fine arts or permission of instructor.

05.792 Art Laboratory: Painting (3) Intensive investigation of ideas and techniques in painting. Emphasis on experimentation leading to development of individual style. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate fine arts program or permission of instructor.

05.793 Art Laboratory: Sculpture (3) Intensive investigation of sculpture with emphasis on experimentation leading to individual style. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of department chair.

05.795 Art Laboratory: Printmaking (3) Intensive investigation of printmaking with emphasis on experimentation leading to individual style. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* admission to graduate program in fine arts or permission of department chair.

05.797 Master's Thesis Seminar (1–6) Independent work toward the thesis, with regular critiques and discussion. Consult the department for registration and participation requirements. Usually offered every term. *Prerequisite:* M.F.A. candidate with permission of department chair.

Art History

Undergraduate Courses

07.100 Survey of Art I: Ancient and Medieval (3) An illustrated introduction to Western architecture, sculpture, and painting to 1400 presented as an objectification and record of major beliefs and ideas. Field trips. Usually offered every fall.

07.101 Survey of Art II: Renaissance and Modern (3) An illustrated introduction to architecture, sculpture, and painting in the Western world between 1400 and 1980. Field trips. Usually offered every spring. *Prerequisite:* 07.100 recommended but not required.

07.105 Introduction to the History of Art /A (3) A selective survey of major monuments and artistic personalities in the history of Western art, from ancient Greece to the present. Field trips. Usually offered every term. Open only to nonmajors.

07.200 Art and Architecture in Rome (3) A Survey of Western art and architecture as exemplified in Roman museums, churches, palaces, and archaeological sites. Usually offered every term. Offered only in Rome.

07.201 Christian Archaeology in Rome (3) An introduction to the major early Christian monuments of Rome and Italy; on-site sessions in Rome and Ravenna. Usually offered every term. Offered only in Rome.

07.301 Greek Art (3) Greek art and architecture from the Archaic through the Hellenistic period. Usually offered alternate years. *Prerequisite:* 07.100 or 07.105 or equivalent.

07.302 Roman Art (3) Art and architecture of Rome from the Republic through the Empire. Usually offered alternate years. *Prerequisite:* 07.100 or 07.105 or 07.301.

07.303 Medieval Art /A (3) A survey of Medieval art covering Early Christian, Byzantine, Romanesque, and Gothic developments in architecture, painting, and sculpture. Usually offered alternate years.

07.304 Aspects of Renaissance Art /A (3) Changing topics with focus on key concepts or developments in Western art, 1400–1700. Using "Renaissance" in its broadest temporal and geographic sense permits a perspective from which fundamental historical changes can be viewed, e.g., from Renaissance to Baroque, north-south polarities, the rise of urban design, and shifts in patronage, iconography, or style. Usually offered alternate years.

07.305 Aspects of American Art /A (3) Changing topics on selected individual artists or on key themes or concepts in American art, from the colonial period to the present. Works of art and library resources in the Washington area are emphasized. Usually offered alternate years.

07.306 Modern Art /A (3) Major trends in painting, sculpture, and architecture from European neoclassicism to contemporary American movements. Usually offered once a year.

07.307 Women and Art (3) A selective examination of the role played in the history of art by women artists and by female imagery, with some attention to the effects of sexual stereotyping on traditional concepts of art history. Particular emphasis is given to contemporary women artists and feminist art theory. Usually offered every fall. *Prerequisite:* two courses in art history, including 07.100, 07.101, or equivalent for graduate students only.

07.308 Gothic Art (3) Architecture, painting, sculpture, manuscript illuminations, and stained glass from the twelfth

to the fifteenth century in Europe. *Prerequisite:* 07.100 or 07.105 or 07.303.

07.316 The Architecture of Humanism 1400–1700 (3) A history of the architecture of the Renaissance, Baroque, and Rococo periods, emphasizing the humanistic traditions of Western Europe as expressed in major buildings and in city planning.

07.318 Nineteenth-and Twentieth-Century Architecture (3) Modern architecture and the encounter of architecture with the machine age.

07.331 Painting and Sculpture in the U.S. to 1900 (3) Attention is given to relationships between American and European art. Emphasis on major artists such as Copley, Stuart, Bingham, Homer, Eakins, and Whistler and on such developments as the Hudson River School, Luminism, genre painting, women's traditional arts, and public sculpture. Usually offered every fall. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

07.332 Painting and Sculpture in the U.S.: 1900 to the Present (3) Attention is given to relationships between American and European art. Emphasis on major events and styles in the twentieth century, such as the Ashcan School, the Armory Show, art of the WPA, Abstract Expressionism, Pop Art, and feminist art, with attention to leading figures such as O'Keeffe, Hopper, Pollock, DeKooning, Jasper Johns, and Claes Oldenburg. Usually offered every spring. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

07.333 American Architecture until 1870 (3) Development of American architecture and its relation to European developments. Usually offered alternate falls.

07.334 American Architecture: 1870 to the Present (3) American architecture and city planning from the post-Civil War period to the present. Usually offered alternate springs.

07.390 Independent Reading Course in Art History (1–6)

07.490 Independent Study Project in Art History (1–6)

07.491 Internship (3) Usually offered every term. *Prerequisite:* approval of adviser and department chair.

Graduate and Advanced Undergraduate Courses

07.500 Approaches to Art History (3) Reading, discussion, and written work based on selected topics in formal analysis, style, iconography, and quality with attention to critical interpretation and writing research papers. Required for undergraduate art history majors and for graduate art history students. Usually offered every fall. *Prerequisite:* four art history courses or graduate standing.

07.501 Baroque Painting (3) Seventeenth-century painting in Italy, Spain, France, the Netherlands, and England. Emphasis on Caravaggio, Rubens, Rembrandt, Vermeer, Poussin, and Velásquez. Usually offered alternate years. *Prerequisite:* two art history courses including 07.101 or equivalent.

07.506 Renaissance Sculpture (3) Italian sculpture from the fifteenth to the seventeenth century, stressing achievements of Donatello, Michelangelo, and Bernini. *Prerequisite:* two art history courses including 07.101 or permission of instructor.

07.508 Painting: Rococo through Impressionism (3) Counter-Rococo currents in the late eighteenth century, including neoclassicism and proto-Romanticism, with a detailed study of David and Goya; French Romanticism in the art of Géricault and Delacroix; romantic landscape painting with emphasis on Turner, Constable, Friedrich, Corot, and the Barbizon School; the realism of Courbet; Manet and Degas; and Monet and the French Impressionists. Usually offered alternate years. *Prerequisite:* two art history courses including 07.101 or equivalent.

07.510 Painting: Post-Impressionism to Expressionism (3) Reactions to Impressionism in the 1880s and 1890s in France and elsewhere in Europe. Emphasis on the art of Seurat and the Neo-Impressionists, Cézanne, Gauguin and the Symbolists, and Van Gogh. Also studied are Toulouse-Lautrec, Bonnard, Vuillard, Munch, Ensor, and Klimt. Art Nouveau and Expressionism are considered as Post-Impressionist phenomena, and their effect on the early work of Matisse and Picasso is assessed. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or equivalent.

07.511 Painting: Cubism to the Present (3) After analyzing the development of Cubism in the art of Picasso and Braque, the course discusses the Cubist followers, Gris, Léger, Delaunay, and the Italian Futurists. Also studied are the nonobjective styles of Kandinsky and Mondrian, and the Dada and Surrealist movements, with emphasis on Duchamp, Miró, and Picasso. American art since 1945 and its roots in traditions of European modernism is considered. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or equivalent.

07.513 Renaissance Painting: Giotto to Botticelli (3) Developments in Florence, Siena, and other artistic centers, with regard to the formulation and solution of Renaissance pictorial problems, 1300–1475. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or equivalent.

07.514 Renaissance Painting: Leonardo to Caravaggio (3) Development of High Renaissance, Mannerist, and proto-Baroque styles. Major artistic personalities, such as Michelangelo, Raphael, Giorgione, and Titian, 1475–1580. Usually offered once a year. *Prerequisite:* two art history courses including 07.101 or equivalent.

07.520 Seminar in Art History (3) Reports and critical discussion of research papers on topic announced for semester. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* six art history courses or permission of instructor.

07.530 Painting from Start to Finish (3) A look at the generative process of painting from preparatory drawings to final works by major painters from Leonardo to Matisse. Usually offered once a year. *Prerequisite:* two art history courses or permission of instructor.

07.590 Independent Reading Course in Art History (1–6)

Graduate Courses

Note: 600-level courses generally meet with 300-level courses. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

07.601 Greek Art (3) Greek art and architecture from the Archaic through the Hellenistic period. Usually offered alternate years. *Prerequisite:* 07.100 or 07.105 or equivalent.

07.602 Roman Art (3) Art and architecture of Rome from the Republic through the Empire. Usually offered alternate years. *Prerequisite:* 07.100 or 07.105 or 07.301.

07.607 Women and Art (3) A selective examination of the role played in the history of art by women artists and by female imagery, with some attention to the effects of sexual stereotyping on traditional concepts of art history. Particular emphasis is given to contemporary women artists and feminist art theory. Usually offered every fall. *Prerequisite:* two courses in art history, including 07.100, 07.101, or equivalent for graduate students only.

07.608 Gothic Art (3) Architecture, painting, sculpture, manuscript illuminations, and stained glass from the twelfth to the fifteenth century in Europe. *Prerequisite:* 07.100 or 07.105 or 07.303.

07.616 The Architecture of Humanism 1400–1700 (3) A history of the architecture of the Renaissance, Baroque, and Rococo periods, emphasizing the humanistic traditions of Western Europe as expressed in major buildings and in city planning.

07.618 Nineteenth-and Twentieth-Century Architecture (3) Modern architecture and the encounter of architecture with the machine age.

07.631 Painting and Sculpture in the U.S. to 1900 (3) Attention is given to relationships between American and European art. Emphasis on major artists such as Copley, Stuart, Bingham, Homer, Eakins, and Whistler and on such developments as the Hudson River School, Luminism, genre painting, women's traditional arts, and public sculpture. Usually offered every fall. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

07.632 Painting and Sculpture in the U.S.: 1900 to the Present (3) Attention is given to relationships between American and European art. Emphasis on major events and styles in the twentieth century, such as the Ashcan School, the Armory Show, art of the WPA, Abstract Expressionism, Pop Art, and feminist art, with attention to leading figures such as O'Keeffe, Hopper, Pollock, DeKooning, Jasper Johns, and Claes Oldenburg. Usually offered every spring. *Prerequisite:* 07.101 or 07.105 or permission of instructor.

07.633 American Architecture until 1870 (3) Development of American architecture and its relation to European developments. Usually offered alternate falls.

07.634 American Architecture: 1870 to the Present (3) American architecture and city planning from the post-Civil War period to the present. Usually offered alternate springs.

07.690 Independent Study Project in Art History (1–6)

07.691 Internship (3–6) Usually offered every term. *Prerequisite:* approval of adviser and department chair.

07.792 Research Seminar in Art History (3) Normally drawn from one of six areas: Renaissance art, Baroque and Rococo art, nineteenth-and twentieth-century art, American art, and architecture. The subject is announced each semester. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* open only to M.A. candidates with twelve hours of graduate art history with B average and permission of department chair.

07.793 Directed Research in Art History (3) Topic arranged. Must be in a field listed under 07.792, but not in field covered in 07.792 that semester. Usually offered every term. *Prerequisite:* open only to M.A. candidates with twelve hours of graduate art history with B average and permission of department chair.

Biology

Undergraduate Courses

09.100 Human Biology /N (3) For the non-science major who is interested in human biological function and structures. The course integrates human development and body functions with current social and ecological problems.

09.101 General Biology I Lecture /N (3) Introduction to structure and function of biological systems and life processes. Genetics and the direction of organisms, including their ecological adaptations. *Prerequisite:* must be taken concurrently with 09.103.

09.102 General Biology II Lecture /N (3) Consideration of basic chemical principles for biology as related to molecular and cellular organization and function. Survey of the five kingdoms with emphasis on certain species of medical or economic importance. *Prerequisite:* 09.101 or permission of instructor; must be taken concurrently with 09.104.

09.103 General Biology I Laboratory (1) Laboratory orientation in basic skills such as microscopy for the study of microscopic anatomy (e.g., cells, tissues, mitosis); dissecting techniques to enable the study of macroscopic anatomy in such animals as the frog and fetal pig; fundamental laboratory-skill development in the use of the analytical balance, preparation of solutions of different kinds, the use of computer and quantitative measurements, and development of record-keeping accuracy. *Prerequisite:* must be taken concurrently with 09.101.

09.104 General Biology II Laboratory (1) Fundamental chemical principles in such studies as enzyme activity, transport mechanisms, cellular organization, photosynthesis, transpiration, and others. Examination of procaryote plant cells with their metabolic activities through higher plants and their metabolic activity are evaluated through laboratory exercises. *Prerequisite:* must be taken concurrently with 09.102.

09.110 Plants and People: Knowing and Growing Plants /N (3) Concepts of plant science as they relate to the identification, care, and growing of common wild, garden, and tropical plants. For the non-biology, non-science major. Topics include: identification of plants, growth and care of plants, plant health including diseases and pests, and uses of plants for pleasure, gardening, landscaping, and economic uses.

09.130 Natural History /N (4) Familiarizes non-science majors with the broad physical and biological aspects of our environment. Emphasis on common organisms and their ecological relationships; the various sciences and social aspects of environmental disruption; environmental assessment; and field and laboratory experiences. Required of environmental studies majors.

09.131 Environmental Science and Technology /N (3) Principles of natural science applied to sanitation management, air and water quality, energy and transportation, food,

resource conservation, and other aspects of the quality of life in urban communities as defined in the National Environmental Policy Act of 1970.

09.132 Environmental Health Science (3) Principles of natural science relating the health effects of environmental pollutants, the human body's defenses, dispersion of pollutants, and mitigation of the health effects of systemic poisons, allergenic poisons, carcinogens, mutagens, and other health risks. *Prerequisite:* 09.131 or permission of instructor.

09.140 Universal Concepts of Healing /N (3) Examines the history of medicine to consider the depth and breadth of human healing experiences. Rational biomedical science, traditional Western medicine, chemotherapy, faith healing, psychic surgery, osteopathy, chiropractic, naturopathy, Chinese herbal medicine, acupuncture, Shiatsu, African traditional medicine, and American Indian and folk medicine.

09.203 Introduction to Oceanography /N (4) Marine geology, meterology, winds, tides. Marine technology and commercial fisheries. Productivity of sea life. Laboratory three hours a week. Demonstrations, local trips, and hands-on use of oceangraphic methodology. *Prerequisite:* 09.101 or permission of instructor.

09.225 Wildlife Conservation and Management /N (3) General principles of ecology and how they relate to conservation and management of wildlife. Discussion of endangered species and communities, conservation, and management of wildlife. *Prerequisite:* one natural science course or permission of instructor.

09.250 Cell Biology Lecture (3) Integrated study of cell structure and function in microorganisms, plants, and animals emphasizing their ultrastructure, biochemistry, and physiology. *Prerequisite:* 09.102, 15.120, 15.121, 15.130, and 15.131; must be taken concurrently with 09.251.

09.251 Cell Biology Laboratory (1) Direct experience with the morphology and physiology of cells. Exercises include the use of pH meters, spectrophotometers, the ultracentrifuge, compound light, polarizing and phase contrast microscopes. Studies of enzyme kinetics, cell motility and respiration, chromosome structure, and fundamental histology are also conducted. *Prerequisite:* must be taken concurrently with 09.250.

09.304 Plant Structure and Function (4) Survey of plant kingdom. Evolutionary relationships of plants based on anatomy, morphology, and physiology. Plant growth and development and plant diseases. *Prerequisite:* 09.102 and 15.310.

09.310 Invertebrate Zoology Lecture (2) Structure, evolution, and physiology of invertebrate animals, marine groups, Helminthes, and certain insecta. *Prerequisite:* one year of general biology or equivalent; must be taken concurrently with 09.311.

09.311 Invertebrate Zoology Laboratory (2) Includes the identification of organisms within the various taxa. Sampling techniques for the collection of animals in fresh and saltwater systems; field trips for collection and identification of habitats for insects and worms; record keeping and an understanding of instrument and equipment maintenance. *Prerequisite:* must be taken concurrently with 09.310.

09.330 Human Anatomy and Physiology I Lecture (3) With 09.331, a two-semester sequence focusing on anatomical and physiological studies of the human organism: integumentary, skeletal, muscular, and nervous systems. Lectures concentrate on normal functioning and homeostasis of the several systems. *Prerequisite:* 09.101 and one semester of chemistry or permission of instructor; must be taken concurrently with 09.332.

09.331 Human Anatomy and Physiology II Lecture (3) Continuation of 09.330, concentrating on endocrine, cardiovascular, lymphatic, respiratory, digestive, and urogenital systems. Usually offered every spring. *Prerequisite:* one semester of chemistry or permission of instructor; must be taken concurrently with 09.333.

09.332 Human Anatomy and Physiology I Laboratory (1) Complements lecture material with time divided between cat dissection and selected experiments illustrating physiological principles. *Prerequisite:* must be taken concurrently with 09.330.

09.333 Human Anatomy and Physiology II Laboratory (1) Concentrates on the endocrine, cardiovascular, lymphatic, respiratory, digestive, and urogenital systems. Usually offered every spring. *Prerequisite:* must be taken concurrently with 09.331.

09.334 Human Structure and Function (4) A one-semester introduction for non-science majors to human anatomy and physiology, in which each body system is studied in lecture. Laboratories are divided between cat dissection and selected experiments that illustrate physiological principles. Offered irregularly. *Prerequisite:* 09.101.

09.335 Vertebrate Physiology Lecture (3) Properties and physiology of vertebrate organ systems are explored. *Prerequisite:* 09.250 and one year general chemistry; must be taken concurrently with 09.336.

09.336 Vertebrate Physiology Laboratory (2) Illustrates selected physiological principles and encourages scientific inquiry. *Prerequisite:* must be taken concurrently with 09.335.

09.340 Microbiology (3) Introductory survey of the protists (with emphasis on bacteria): their morphology, physiology, metabolism, growth, and destruction and their role in human welfare as agents of disease and environmental change. *Prerequisite:* 09.101, 09.102, and 15.310 and concurrent registration in 09.341.

09.341 Microbiology Laboratory (2) Techniques of staining, cultivation, isolation, and identification of microbes, with emphasis on bacteria. Experiments on physiology, metabolism, and physical-chemical effects on growth and death of microbes. Optional for non-biology majors. *Prerequisite:* concurrent registration in 09.340.

09.350 Foundations of Immunology (4) The basic biology of immunity. Stressing the cellular, genetic, biochemical, and developmental aspects of "immunologic surveillance," the lectures examine immunogens, antigens, antibodies, immunoglobulin synthesis, hypersensitivity, immunologic aging, tumor immunity, and transplantation dynamics. The laboratory provides immunoglobulin analysis, *in vitro* cell culture methods, and tissue-grafting techniques. *Prerequisite:* 09.101, 09.102, 09.250, 15.120, and 15.130.

09.356 Genetics (4) Basic genetic principles as revealed by classical and modern research methods. Patterns of gene transmission; gene structure, function, interactions, and mu-

tation; chromosomal aberrations; nonchromosomal inheritance; biochemical genetics; and population genetics. Includes laboratory. Usually offered every fall. *Prerequisite:* 09.250 or permission of instructor.

09.357 Genetics Laboratory (1) Experiments illustrating basic genetic concepts, using materials from corn. Drosophila, and humans. Required for B.S. degree; optional for B.A. and non-biology majors. *Prerequisite:* 09.250, and 09.356 previous or concurrent.

09.358 Developmental Biology Lecture (3) Integration of descriptive morphology and experimental physiology of developmental processes in selected invertebrate, vertebrate, and plant types. *Prerequisite:* 09.250; must be taken concurrently with 09.359.

09.359 Developmental Biology Laboratory (2) Study of prepared microscope slides and living material. Experiments illustrating developmental concept. *Prerequisite:* must be taken concurrently with 09.358.

09.388 Reproduction Biology (3) A study of reproductive processes, associated diseases, and conditions involving gametogenesis through pregnancy and birth, with emphasis on the human situation. *Prerequisite:* 09.100 or 09.101.

09.389 Ecology and the Human Environment /N (3) Multidisciplinary course that integrates aspects of ecology, economics, engineering, and law. Radio course combined with individual tutorial sessions four times during the semester. Students develop an environmental portfolio according to directions given in the course syllabus. Usually offered every term. Meets with 09.689. *Prerequisite:* graduate standing.

09.390 Independent Reading Course in Biology (1–6)

09.392 Cooperative Education Field Experience (3–9) See Cooperative Education in this publication.

09.411 Pathogenic Microbiology Lecture (3) Infectious diseases of humans with emphasis on bacterial pathogens and the biology of the causative agents. Host-parasite relationships, pathogenesis, immunology, and epidemiology are studied. Usually offered every fall. *Prerequisite:* 09.340 and 09.341; must be taken concurrently with 09.412.

09.412 Pathogenic Microbiology Laboratory (1) Laboratory work emphasizes the methodologies related to the clinical microbiology laboratory setting. Students work independently in the isolation and determinative bacteriology of pathogenic specimens. The bacterial pathogens are stressed. *Prerequisite:* 09.340, 09.341, and 09.411.

09.421 Human Genetics (3) An examination, at the morphological and biochemical levels, of the inherited traits of man. Major topics include inborn errors of metabolism, hemoglobins, transplantation and immunogenetics, and behavior. *Prerequisite:* 09.356.

09.423 Introduction to Ecology (3) General principles of terrestrial and aquatic ecology, emphasizing deciduous forest and fresh water ecology. Students with career interests in ecology are encouraged to take 09.424 concurrently. *Prerequisite:* 09.102.

09.424 Introduction to Ecology Laboratory (1) Laboratory and field investigations associated with general ecological concepts. Terrestrial and aquatic field sampling techniques. Data analysis techniques. *Prerequisite:* 09.423, which may be taken concurrently.

09.456 Honors Seminar (1) Presentation of summaries of recent primary literature in biology. Students seeking Honors in biology must earn a grade of A in this course. Usually offered every fall. *Prerequisite:* senior or second-semester junior standing in the B.S. program in biology; completion of at least eight courses at The American University of which six must be in required or tool courses for the major, with a grade-point average of 3.5; and permission of instructor.

09.457 Honors Research (2) Students design and conduct laboratory or field research projects, write the results as scientific papers, and present the results in a departmental seminar. Pure library research projects are prohibited. Students seeking Honors in biology must earn a grade of A in this course. Usually offered every spring. *Prerequisite:* a grade of A in 09.456; an overall grade-point average of 3.0 or higher for all course work completed; a grade-point average of 3.5 or higher in required and tool courses for the B.S. in biology; and permission of instructor.

09.490 Independent Study Project in Biology (1–6)

09.491 Internship (1–4) Usually offered every term.

Graduate and Advanced Undergraduate Courses

09.500 Advanced General Microbiology (4) Structure and functional anatomy of procaryotic cell walls and membranes; bacterial phototrophs, autotrophs, heterotrophs, their main pathways of degradative and synthetic metabolism; mechanisms of procaryotic genetic exchange; and regulation of gene expression. Laboratory illustrates physiological and genetic concepts. *Prerequisite:* 09.340 and organic chemistry.

09.505 Introduction to Neurobiology (3) A general introduction to basic neuroanatomy and neurophysiology, with discussions of current topics in neuroscience. It is intended for advanced undergraduates in biology or psychology pursuing a natural-science curriculum, and for graduate students in biology and psychology. *Prerequisite:* one year college-level biology and permission of instructor. A course in anatomy and physiology is strongly recommended.

09.506 Introduction to Medicine and Physical Diagnosis (3) An introduction to basic techniques of physical examination, medical history-taking, and the use of laboratory tests for the diagnosis of human disease. The physiological functions of the body systems are reviewed prior to the study of common diseases afflicting humans. *Prerequisite:* permission of instructor.

09.510 Immunogenetics (3) Genetic control of immunologic reactions; inheritance of cell-borne antigens determining blood groups; and transplantation of cells, tissues, and organs. Current concepts of related immunological phenomena including cancer and pregnancy. *Prerequisite:* four courses in biology.

09.511 Animals in Research (3) The design and maintenance of animal colonies for use in toxicology and biomedical research. The construction and design of buildings, temperature controls, animal rooms, and cages. Laboratory personnel, their management, animal welfare, and federal regulations governing the use of animals. *Prerequisite:* junior standing.

09.512 Clinical Laboratory Methods (1) Lecture, demonstrations, and discussion of clinical laboratroy operation: biohazard and chemical safety; tests and significances of urine, blood, body solid wastes, food, and drinking water. Usually offered every spring and fall. *Prerequisite:* one year each of biology and chemistry; must be taken concurrently with 09.513.

09.513 Clinical Laboratory (3) Intensive laboratory activities designed to develop safe clinical and other basic laboratory skills. Urinalysis; blood analysis; food analysis; drinking water analysis. Usually offered every spring and fall. *Prerequisite:* one year each of biology and chemistry; must be taken concurrently with 09.512.

09.520 Limnology (4) Study of physical, chemical, and biological properties of fresh-water environments. Ponds, lakes, reservoirs, rivers, and estuaries studied as integrable systems of standing or flowing waters. Geochemical cycles and contribution of urban and terrestrial components to these systems. Field trips are required. *Prerequisite:* senior or graduate standing.

09.526 Comparative Mammalian Embryology (3) Descriptive aspects of embryology of mammals. Emphasis on development of humans. *Prerequisite:* 09.358 or equivalent and permission of instructor.

09.530 Histology Lecture (3) Study of the microscopic anatomy of tissues and organs with emphasis on human microanatomy. *Prerequisite:* 09.250 or equivalent and permission of instructor; must be taken concurrently with 09.531.

09.531 Histology Laboratory (2) Involves the study of prepared slides and the learning of various histological techniques. *Prerequisite:* must be taken concurrently with 09.530.

09.532 Medical Parasitology (4) An introduction to parasitology, emphasizing the study of the host-parasite relationships of protozoan and helminthic animals infecting humans. Includes reservoirs, vectors, life cycles, epidemiology, pathogenesis, control, treatments, and diagnostic stages. Includes laboratory. *Prerequisite:* graduate or advanced undergraduate standing and permission of instructor.

09.541 Cellular Immunology (4) Current concepts of the immune response at the cellular level. Structure and function of the T-lymphocyte, B-lymphocyte, macrophages, and ancillary cells. Theories of antibody diversity and the cellular basis of immunoglobulin formation. Cellular aspects of immunologic tolerance, hypersensitivity, surveillance, and clinical immunology. Review of the current literature. Usually offered every fall. *Prerequisite:* 09.350 or graduate standing.

09.543 Virology (3) Characteristics of bacterial, plant, and animal viruses. Genetics and biochemistry of viral pathogenesis. Introduction to medical virology and concepts of antiviral immunity. Theories of viral oncogenesis. *Prerequisite:* 09.340 and two courses in organic chemistry.

09.544 Epidemiology (3) An introduction to the scope of epidemiology and to the designs of epidemiological studies, data evaluation, and cause and effect relationships in the characterization of disease occurrence in human populations. *Prerequisite:* 09.340, 42.202, graduate or advanced undergraduate standing, and permission of instructor.

09.560 Techniques and Instrumentation in Bioanalysis Lecture (2) Theory of modern laboratory instrumentation. *Prerequisite:* senior or graduate standing, 09.250, 09.356, 15.320, and permission of instructor; must be taken concurrently with 09.561.

09.561 Techniques and Instrumentation in Bioanalysis Laboratory (3) Practical experience in the use of modern laboratory instrumentation. Students perform experiments, operate various instruments, and familiarize themselves with the theory and techniques of performing experiments and analysis. Usually offered every spring. *Prerequisite:* must be taken concurrently with 09.560.

09.566 Evolutionary Mechanisms (3) The genetic composition of populations and the theory and principles of natural selection. Species formation and differentiation in Darwinian and neo-Darwinian theory. Evolution above the species level and current evolutionary concepts (such as sociobiology and catastrophy theory) are also considered. *Prerequisite:* 09.250, 09.356, or 09.358.

09.572 Special Topics in Ecology (1–4) Selected topics and current research relating to freshwater and marine aquatic ecosystems, biogeography, and populations of plants and animals. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* one course in basic ecology.

09.574 Special Topics in Genetics (1–4) Topics such as the molecular aspects of genetic regulation, development, and recombination. Laboratory topics are also given, but not with every offering. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* permission of instructor.

09.575 Special Topics in Immunology (1–4) Seminars include a discussion of such current research interests as genetics of antibody formation, lymphocyte surface antigens, cell interactions in immune responses, and transplantation and graft-vs-host reactions. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* permission of instructor.

09.577 Special Topics in Developmental Biology (1–4) Current research interests such as nuclear-cytoplasmic interactions, cell surface in development, developmental aspects of carcinogenesis, and gene expression in development. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* 09.358 or equivalent and permission of instructor.

09.580 Environmental Analysis (3) Introduction to administrative and analytic processes involved in preparation and review of environmental impact statements. The multidisciplinary assessment called for in an EIS is discussed and practical applications carried out in class. *Prerequisite:* 09.389 or 689.

09.583 Energy, Technology, and the Human Environment (3) Technological issues that underlie present supply capabilities for most energy sources: domestic energy supply and demand ratios, environmental effects of energy supply and use, and the federal government's energy organization. Instruction by radio (WAMU-FM). Usually offered alternate falls, springs, and summers.

09.588 Dial Access Series in Environmental Systems Management (3) These courses may be taken at students' convenience in the language laboratory, where films and tapes are available. Study guides may be obtained from the Envi-

ronmental Systems Management office. Students are required to schedule three interviews with the instructor during the semester. May be repeated for credit in the same term; topic must be different.

Parasitic Disease: Socioeconomic Effect on Developing Nations: Analysis of parasitic organisms and the effects of diseases they produce on human, natural, and technological environments.

Malnutrition, Mental Retardation, Public Administration: Economic, political, genetic, and environmental issues fundamental to understanding social issues in relation to mental retardation.

Ecology of Comparative Biotic Systems: Anatomy and physiology of biota, and their relationships to natural and technological environments.

09.590 Independent Reading Course in Biology (1–6)

Graduate Courses

09.660 Mammalian Physiology and Pathology (3) This course is concerned with the way systems function and the way each contributes to the function of the body as a whole. A goal is to discuss and identify the toxic agents that interfere with the normal function of the body.

09.679 Aquatic Toxicology (3–4) The principles and applications of physiological toxicology, toxicological methodology and data, bioaccumulation of aquatic contaminants, and the fate of chemicals in the aquatic environment. Students conduct standardized bio-assays and evaluate the toxicity of selected compounds to selected trophic levels. *Prerequisite:* 09.556, 09.681, graduate standing, and permission of instructor.

09.680 Introduction to Toxic Materials (3) Past and present bio-political decisions in the context of specific effects on resources and policy. Bio-political resource-management decisions with indirect and direct wildlife implications as related to toxic and hazardous materials. Actual and hypothetical decision processes scrutinized as to their predictability and consequences.

09.681 Pesticide Degradation in the Environment (3) Metabolism of pesticides and other hazardous materials is reviewed. The type of reaction, degradation by class, effects of ultra-violet and sunlight, and general differences and similarities between metabolism of plants and animals are discussed.

09.682 Federal Regulations for Toxic Materials (3) The values and hazards of agricultural chemicals and other environmental pollutants. Integrated crop management. Statutes, regulations, laws, and environmental quality.

09.684 Energy Conservation and Development (3) Fundamentals of energy conservation, energy development planning, and policy development and implementation. Particular attention is paid to the implications of government regulations and to the economics of energy conservation and development. *Prerequisite:* permission of director.

09.689 Ecology and the Human Environment (3) Multidisciplinary course that integrates aspects of ecology, economics, engineering, and law. Radio course combined with individual tutorial sessions four times during the semester. Students develop an environmental portfolio according to directions given in the course syllabus. Meets with 09.389. *Prerequisite:* graduate standing.

09.690 Independent Study Project in Biology (1–6)

09.691 Internship (1–6)

09.692 Cooperative Education Field Experience (3–6) See Cooperative Education in this publication.

09.700 Graduate Seminar (1) May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* graduate standing in biology.

09.730 Advanced Cell Physiology (4) The structure and functions of cellular components: chromosomes, mitochondria, membranes, nuclear-cytoplasmic interactions, and chloroplasts. Offers current information about mechanisms involved. *Prerequisite:* 09.250 and graduate standing in biology or permission of instructor.

09.790 Biology Literature Research (1–6) Students conduct a literature search on some aspect of the biological sciences under the direction of their guidance committee, culminating in the submission of a review paper. Satisfies part of the degree requirements for the M.A. degree in biology. Usually offered every term. *Prerequisite:* M.A. candidate in biology.

09.797 Master's Thesis Research (1–6) *Prerequisite:* M.S. candidate in biology.

Business Administration

Management

Undergraduate Courses

Note: Junior standing is required to enroll in all KCBA courses at the 300 or 400 level.

10.352 Introduction to Management Information Systems (3) Information as an organizational resource, decision-making frameworks, transaction processing systems, decision support systems, external information systems, office automation, competitive information systems, accounting and financial applications, marketing applications, production applications, needs assessment, system design and implementation, organizational impacts, and social issues. A technology update is provided in hardware and software basics, database management systems, and telecommunications. Usually offered every term. *Prerequisite:* 40.260 or 40.280; 14.240, 14.241, 11.300, 42.202, and 10.353 which may be taken concurrently.

10.353 Organizational Behavior (3) Current management theories, research, and practice. Course content represents a synthesis of behavioral sciences providing a broad framework for management. Topics include organizational goals and responsibilities, models, decision theory, planning control, organization, motivation, leadership, group behavior, conflict, and organizational change. Usually offered every term. *Prerequisite:* junior standing.

10.354 Business Applications of Computers /N (3) Applications of information systems and various software pack-

ages to the solution of business problems. *Prerequisite:* 40.260 or 40.280 and 10.352.

10.355 Quantitative Analysis/Operations Management /N (3) Fundamental concepts of operations management. Introduction to operations research and to management science and its interdisciplinary aspects. Basic elements of decision theory, inventory models, linear programming (L/P), production models, simulation, waiting lines, etc. Usually offered every term. *Prerequisite:* for KCBA students, junior standing and all KCBA requirements in economics, mathematics, statistics, and computer science; for all other students, permission of department chair.

10.381 Introduction to Personnel Administration (3) Understanding the principles and operations of personnel administration and industrial-relations systems in organizations by analyzing and applying theoretical concepts to functional situations. Usually offered every term. *Prerequisite:* junior standing.

10.382 Employee Participation in Decision Making (3) An analysis of the concepts and principles of union-management relationships through an emphasis of the historical, legal, economic, social, and behavioral dynamics of union and management interactions in various settings. Usually offered every fall term. *Prerequisite:* 10.381.

10.383 Problems in Personnel Administration (3) Uses problems and case histories to develop decision-making proficiency in the functional areas of personnel administration and industrial relations. Usually offered every spring. *Prerequisite:* 10.381 and 10.382.

10.384 Applications of Performance Appraisal (3) The course focuses on the function and design of performance appraisal systems as tools of professional development, coaching and counseling, merit-compensation determinations, and goal implementation. Students examine the assets and liabilities of alternative methods of performance-appraisal systems. Applications are oriented to the role of the personnel manager. Usually offered every spring. *Prerequisite:* 10.381.

10.390 Independent Reading Course in Business Administration (1–6) *Prerequisite:* junior standing.

10.391 Internship in Business Administration (1–6) *Prerequisite:* junior standing.

10.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication. *Prerequisite:* junior standing and nine semester hours in business including any relevant business core courses specified by the department.

10.458 Business Policy and Strategy (3) Integration of knowledge in functional areas of business and simulation of management experiences. Various methods of simulating a management environment are employed, including case studies and computerized management problems. Usually offered every term. *Prerequisite:* senior standing and completion of all junior-level courses.

10.481 Wage and Salary Administration (3) This course surveys and analyzes basic concepts of compensation administration in private sector organizations. It covers the foundation for wage and salary programs, methods of job evaluation, building wage and salary structures, and the legal constraints on compensation programs. Usually offered every fall. *Prerequisite:* 10.381, 10.382, or permission of department chair.

10.482 Pension and Benefits Management (3) Analyzes management requirements for legally required benefits such as OASDI, health insurance, unemployment insurance, and worker compensation. Provides in-depth examination of social insurance programs, ERISA, and pension fund management. Usually offered every spring. *Prerequisite:* 10.381, 10.382, 10.383, and 10.481; or permission of department chair.

10.490 Independent Study Project in Business Administration (1–6)

Graduate and Advanced Undergraduate Courses

10.585 Equal Employment Opportunity (3) An analysis of labor-force demographics, study of the Civil Rights Act and amendments, and study of other discrimination-oriented legislation. The course focuses on providing equal employment opportunities in organizations, how to establish affirmative action programs, and how to evaluate the effectiveness of EEO in organizations. *Prerequisite:* 10.381, 10.382, and 10.383; or permission of department chair.

10.586 Management-Union Relations (3) Explores the nature of the collective bargaining system in the United States and the parties having a vital interest in the system. The course deals primarily with formal organizations designed to represent the interests of employers, workers, and the general public. It presents historical background, current practices, and future directions of unions; management strategies in dealing with unions; and the collective bargaining process. *Prerequisite:* 10.381, 10.382, and 10.383; or permission of department chair.

10.590 Independent Reading Course in Business Administration (1–6)

Graduate Courses

10.606 Managerial Statistics (3) Statistical tools applied to the analysis and resolution of managerial problems with emphasis upon regression. Use of standard computer programs using Statistical Analysis System (SAS). Usually offered every term. *Prerequisite:* A course in calculus, the KCBA mathematics workshop, or permission of department chair.

10.608 Management Science (3) Quantitative methods of operations research (O.R.) models and production management applications. Problem identification, mathematical model construction, computer-oriented solutions, sensitivity analyses, and model validation. Conceptual understanding of the use of O.R. models in the decision-making process of production and operations management. Usually offered every term. *Prerequisite:* 10.606 or equivalent.

10.610 Organizational Theory and Behavior (3) Topics include authority and leadership, motivation and morale, work groups and group dynamics, communication, informal systems, planning and management by objectives, concepts of organizational development, organizational structure and processes, systems approach, decision making, control systems, and organizational conflict and change. Usually offered every term.

10.611 Managerial Economics (3) Fundamental analytical tools of economics applicable to decision making. Research of empirical and theoretical studies and evaluation of their application to economic analysis in management. Usually offered every term.

10.612 Business Economics (3) Macroeconomic analysis and study of determinants of national income, output, employment, and price levels. National income accounting and classical as well as Keynesian economic models. Fiscal and monetary policy. Usually offered every term. *Prerequisite:* 10.611.

10.614 Operations and Systems Management (3) Techniques and concepts of operations and systems management. Operations strategies for productivity, demand forecasting, setting standards, capacity planning and master scheduling (PERT, CPM) facilities location and aggregate planning. Quality control, reliability, and maintenance management integrated into methods to evolve optimized solutions. Usually offered every term. *Prerequisite:* permission of department chair.

10.653 Business-Government Relations (3) The public policy process. The impact on business of government economic policies (fiscal and monetary, antitrust, public utility regulation, foreign trade and investment), and social policies (environmental, consumer, and worker protection, and equal employment opportunity). Company management of business-government relations, including organization of governmental affairs activities and methods of influencing public opinion, elections, legislation, and policy administration. Guest lecturers. Usually offered every term.

10.671 Issues in Personnel Resources Administration (3) Functional issues and current developments in administering the personnel resources of contemporary private-sector organizations. Usually offered every fall.

10.681 Wage and Salary Administration (3) This course analyzes concepts and practices of compensation administration in organizations. It covers wage and salary programs, methods of job evaluation, building wage and salary structures, and the legal constraints on the wage and salary administrator and on compensation programs. Usually offered every fall. *Prerequisite:* 10.671 or permission of department chair.

10.682 Seminar in Pension and Benefits Management (3) Analyzes the Social Security Act and its offsets as applied to private, single, and multiemployer plans, ERISA, OASDI, health insurance, unemployment insurance, and worker compensation. Provides skills in pension-fund management. Usually offered every spring. *Prerequisite:* 10.671 and 10.681; or permission of department chair.

10.684 Seminar in Performance Appraisal (3) This course reviews performance-appraisal systems as tools of the management process. The various performance-appraisal techniques, role of rater and rated, and the organizations are examined during this comprehensive review. Current research in performance appraisal is emphasized and discussed. Usually offered every spring. *Prerequisite:* 10.671 or permission of department chair.

10.690 Independent Study Project in Business Administration (1–6)

10.691 Internship (3–6) A work-study experience normally taken by students who have no previous professional work experience. Generally taken in the summer following the first year of graduate study. Design of project and monitoring through completion are details worked out among student, supervising faculty member, and employer. *Prerequisite:* 3.00 overall grade-point average and permission of the department chair.

10.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

10.694 Seminar in Personnel Resources Training and Development (3) Current problems and issues in personnel training and development at all organizational levels, with emphasis on the middle management level. Usually offered every other year. *Prerequisite:* 10.671 or permission of department chair.

10.695 The Legal Environment of Human Resource Management (3) Examines the legal regulation of collective bargaining by analyzing legislative acts, judicial decisions, and administrative determinations that define the rights and govern the behavior of employers and unions in contemporary industrial society. Usually offered alternate falls. *Prerequisite:* 10.671 or permission of department chair.

10.697 Management Information Systems (3) Decision-making frameworks, types of information systems, needs assessment, selection and evaluation, implementation, social and policy issues. Computer applications to business decisions. Usually offered every term. *Prerequisite:* 14.603, 10.606, and 10.610.

10.755 Strategic Management (3) Unites the various majors and disciplines taught in the Kogod College of Business Administration. Conceptual skills for integration of previously learned aspects of corporations. A framework for analyzing organizational problems. Strategic management concepts, research, and theories as they apply to organizational analysis. Analytical and decision-making skills are developed through the use of simulations and case studies. *Prerequisite:* completion of all graduate core course requirements or permission of department chair.

10.758 Seminar in Management Planning and Control (3) Concepts and requirements of planning and control systems. Analytical tools required for output-oriented program structure. Application of measurements to management information systems with emphasis on interdependence between quantitative and behavioral fields. Comparison between market-and non-market-oriented budgetary processes. Usually offered every term. *Prerequisite:* for KCBA students, completion of all first-stage M.B.A. courses or equivalent; for all other students, permission of department chair.

10.759 Simulation and Gaming (3) Analyzes various models and provides tools for model building. Simulations of continuous and discrete systems are made. Analysis of business games that allow for decision making. Various analytical models and simulations are studied and compared. Usually offered every spring. *Prerequisite:* 10.758 or permission of the department chair.

10.760 Seminar in Operations Analysis (3) Capstone seminar in the Operations Analysis and Information Systems major and involves real-time, on-going, real-life research projects. Students formulate and complete applications of management science techniques. Supervised research and discussions. Usually offered every spring. *Prerequisite:* 10.758 or permission of department chair.

10.792 Seminar in Industrial Relations Administration (3) Research into current problems, issues, and developments in industrial relations administration. Usually offered every spring. *Prerequisite:* 10.671 or permission of department chair.

10.795 Personnel Resource Planning (3) Concepts and techniques of personnel resource planning, with special emphasis on projections of manpower requirements. Usually offered every summer. *Prerequisite:* 10.671 or permission of department chair.

Marketing

Undergraduate Courses

Note: Junior standing is required to enroll in all KCBA courses at the 300 or 400 level.

11.300 Principles of Marketing (3) Introduction to marketing decision making in business and nonprofit organizations. Particular attention is devoted to analysis of customer needs; segmenting markets; and developing product, promotion, pricing, and distribution strategies. Relationships between consumers, business, and government are explored. Usually offered every term. *Prerequisite:* 19.101, 19.102, and junior standing.

11.301 Consumer Behavior (3) Study of marketing, psychology, sociology, and cultural anthropology to determine motivations for product purchases. A multimedia approach is used to illustrate the use of behavioral science theory to create new products and promotional campaigns. Students learn to analyze consumer decisions for products or services and to determine effectiveness of information provided by government and charitable organizations. Usually offered every term. *Prerequisite:* 11.300.

11.360 Principles of Procurement and Federal Assistance (3) The management of acquisition, procurement, and federal assistance by the government and private sectors. Organizations and procedures; requirements; budgeting; government marketing by private sector; negotiations; proposal preparation; types of contracts and federal assistance; political environment; and special considerations such as small business and equal opportunity. Usually offered every term. *Prerequisite:* Junior standing.

11.390 Independent Reading Course in Business Administration (1–6)

11.391 Internship in Business Administration (3–6) Designed to provide valuable field experience for students seeking careers in advertising, marketing research, strategic planning, international marketing, sales, retailing, and product management. Consists of fifteen hours a week in a marketing position, group meetings with director and other interns, and a written report. *Prerequisite:* 11.300.

11.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication. *Prerequisite:* junior standing and nine semester hours in business including any relevant business core courses specified by the department.

11.401 Marketing Research (3) Study of research tools used to aid marketing decision making. Considers definition of research problems, selection of projects, and analysis of data. Execution of a consumer survey is a major component of the course. Students use the computer to analyze research data. Usually offered every term. *Prerequisite:* 11.301 and 42.300; may be taken concurrently with 42.300.

11.402 Marketing Problems (3) Analysis of current marketing management issues. Students develop a marketing plan for an outside organization, analyze case studies, and participate in computer simulation exercises. Usually offered every term. *Prerequisite:* 11.401 and senior standing; may be taken concurrently with 11.401.

11.411 Promotion Management (3) The role of advertising, public relations, personal selling, and sales promotion in business. Emphasis on how promotional campaigns are planned, created, and budgeted, and how these campaigns can inform buyers, change attitudes, and increase sales. Usually offered every term. *Prerequisite:* 11.300.

11.412 Advertising Campaigns (3) Development of an advertising campaign for a client. Includes formulation of advertising strategy, media planning, media buying, creative execution, and campaign evaluation. Usually offered every fall. *Prerequisite:* 11.300.

11.421 Sales Management (3) An introduction to professional sales force management. Designed to develop skills in planning the sales program, organizing the selling effort, and recruiting, training, and motivating the sales force. Usually offered every spring. *Prerequisite* 11.300.

11.436 Retailing Management (3) Creation and management of retailing institutions. Topics include buying, merchandising, pricing, promotion, inventory management, customer service, and location decisions. Field trips to major retail establishments, guest speakers, and development of a plan for a new retail store are the major components of the course. Usually offered every fall. *Prerequisite:* 11.300.

11.490 Independent Study Project in Business Administration (1–6) *Prerequisite:* junior standing.

Graduate and Advanced Undergraduate Course

11.501 Marketing and Public Policy (3) Seminar course that explores marketers' responses to the changing legal and regulatory environment. Topics include the impact on marketing practice of copyright and trademark law; warranties; products liability; food and drug, product safety, and deceptive advertising regulations; and antitrust law. The course features prominent guest speakers who debate current issues with the class. *Prerequisite:* 11.300 and senior standing, or 11.601.

11.590 Independent Reading Course in Business Administration (1–6)

Graduate Courses

11.601 Marketing Management (3) Examination of strategies used by marketing managers to solve business problems. Students learn to make marketing decisions by analyzing environmental constraints and market opportunities. Completion of case studies, analysis of actual business problems, and development of a strategic plan for a business are covered. Usually offered every term. *Prerequisite:* 10.611 and 14.603.

11.602 Consumer Behavior (3) Factors influencing consumer motivation and behavior. Consumer decision-making processes and their marketing implications. Students analyze the role of culture, personality, lifestyle, and attitudes in consumer decisions. Usually offered every fall and spring. *Prerequisite:* 11.601 or permission of department chair.

11.603 Industrial and Government Markets (3) Study of markets for industrial goods and services. Emphasizes differences between consumer and industrial marketing, pricing strategies, distribution decisions, product development, and promotional decisions. Use of case studies and guest speakers. Usually offered every spring and summer. *Prerequisite:* 11.601 or permission of department chair.

11.604 Marketing Research (3) Study of research principles used to solve marketing problems. Students, in cooperation with outside organizations, develop market studies, collect data, analyze data, and present a report to management. Research projects, guest speakers from research firms, and analysis of data using the computer are included in the course. Usually offered every term. *Prerequisite:* 11.601 and 10.606, or permission of department chair.

11.605 Promotion Management (3) Problems of managing promotional operations in the firm, including advertising, sales promotion, merchandising, personal selling, public relations, and institutional promotion (individually, and as part of strategically coordinated promotional programs) are approached from a managerial point of view. For students seeking careers in sales, advertising, or public relations. Usually offered every spring. *Prerequisite:* 11.601 or permission of department chair.

11.607 Strategic Marketing (3) The strategic or long-range planning process is explored from the perspective of the marketing decision-maker. Interaction with other functional areas such as finance and production is emphasized. The course includes preparation of a strategic plan for a major firm and exposure to guest speakers. Usually offered every term. *Prerequisite:* 11.601 and 13.605 or permission of department chair.

11.660 Principles of Procurement Management (3) The management of procurement by both the government and private sectors. Includes organizations and procedures; requirements; budgeting; government marketing by the private sector; negotiations; proposal preparation; kinds of contracts; the political environment; special considerations, such as small business and equal opportunity; ethics; and case studies. Usually offered every term.

11.661 Federal Procurement Law (3) The law as applied to government procurement programs. Derivation of federal procurement law from the Constitution, statutes, executive orders, regulation, court decision, and administrative rulings. Application of law to each step of the federal procurement process. Usually offered every fall. *Prerequisite:* 11.660.

11.662 Materials Management and Purchasing (3) The management of materials and services in a business or government organization. Production and operations; forecasting and market analysis; source selection; procurement and purchasing; physical supply; inventory control; inventory valuation; transportation and physical distribution; and ethics. Usually offered every fall. *Prerequisite:* 11.660 and 10.606.

11.663 Cost and Price Analysis (3) Cost and price analysis considered from the viewpoint of the government and of the private sector in procurement. Principles governing the determination of allowable, allocable, and reasonable contract costs, both direct and indirect; contractor cost and price considerations; case studies. Usually offered every spring. *Prerequisite:* 11.660 and 14.603.

11.664 Contract Administration (3) The management of government contracts in the post-award phase. The legal basis for contract oversight, quality assurance, reliability and maintainability, production controls, financing, cost controls, value engineering, contract termination, and disputes. Usually offered every spring. *Prerequisite:* 11.660.

11.666 Major-Systems Acquisition (3) Management and the major-systems acquisition process. Topics include program management; acquisition strategy; A-109; source selection and negotiation; risk analysis; productivity; costing and pricing; changes; multinational considerations; and the management of subcontractors. Usually offered every fall. *Prerequisite:* 11.660 and 11.663.

11.667 Service Contracting (3) The course concentrates on aspects of service contracting that are unique or different from product or systems. Includes Service Contract Act and OMB circular A-76 as guidelines for decisions between government and contract sources for needed services. Usually offered every spring. *Prerequisite:* 11.660 and 11.663.

11.669 Seminar in Procurement Policy (3) The development of procurement policy at the highest levels of government. The originators of procurement policy and their interaction with the private sector. Policy implementation, including method, and the influence and roles of participants. The impact of procurement policies and responsibility for policy management changes. Usually offered every fall. *Prerequisite:* 11.660, 11.661, and 11.664.

11.690 Independent Study Project in Business Administration (1–6)

11.691 Internship (3–6) Designed to provide valuable field experience to students seeking careers in advertising, marketing research, strategic planning, international marketing, sales, retailing, and product management. Consists of fifteen hours a week in a marketing position, group meeting with director and other interns, and a written report. *Prerequisite:* 11.601.

11.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

International Business

Undergraduate Courses

Note: Junior standing is required to enroll in all KCBA courses at the 300 or 400 level.

12.300 Fundamentals of International Business (3) An introductory course that studies the nature and scope of international trade and investment, international institutions, the international monetary system and exchange markets, and some of the major issues involved in the functional aspects of international business. Usually offered every term. *Prerequisite:* junior standing.

12.301 International Marketing (3) The concepts and practices of marketing across national borders and the adaptations to the marketing program required because of the dif-

ferent needs, environmental constraints, and forms of competition in foreign markets. Usually offered every term. *Prerequisite:* 11.300 and 12.300.

12.302 International Finance (3) The structure and nature of the international monetary system and the operation of exchange markets, foreign exchange exposure, and foreign capital markets. The cost of capital in an international context is also studied, as well as some of the major issues in international accounting, taxation, and banking. Usually offered every term. *Prerequisite:* 12.300 and 13.365.

12.391 Internship in Business Administration (1–6) *Prerequisite:* junior standing.

12.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication. *Prerequisite:* junior standing and nine semester hours in business including any relevant business core courses specified by the department.

12.401 Cultural Environment of International Business (3) The cultural factors affecting international business operations and their influence on the principal business functions of finance, marketing, procurement, production, public and external relations, and research and development. Usually offered every term. *Prerequisite:* 12.300.

12.490 Independent Study Project in International Business (1–6)

Graduate and Advanced Undergraduate Courses

12.504 Multinational Accounting Issues (3) Major differences in selected national accounting systems, comparative accounting practices, currency translation and consolidation of financial statements, problems with inflationary/deflationary currencies, transfer pricing, international financial disclosure, and multinational taxation issues. Usually offered every fall. *Prerequisite:* 14.240 and 14.241, or 14.603.

12.505 Legal Issues of International Business (3) An introduction to the legal issues facing international business, including a study of the international legal process, minimum standard, national laws and aliens, jurisdictional conflicts, transnational reach of national laws, and international contracts for distribution, licensing, and joint ventures. Usually offered every spring.

Graduate Courses

12.600 Manager in the International Economy (3) The practice and principles involved in conducting the functional aspects of business in an international context; includes the study of the nature, scope, and trends of international business as well as the international monetary system, international agreements, and considerations resulting from the environmental differences between nations. Usually offered every term.

12.601 International Marketing (3) The strategic approach to marketing products and services across national borders, including the modification of the elements of the marketing program to meet the different market needs, environmental constraints, and forms of competition in foreign markets. Usually offered every term. *Prerequisite:* 11.601.

12.602 International Finance (3) Financial operation of the multinational firm, including the sources of funds, foreign investment decisions, and international transactions and taxation. Also included is a study of the related aspects of the international monetary system, foreign exchange markets, and international banking. Usually offered every term. *Prerequisite:* 13.605.

12.603 Comparative Management Systems (3) The study of business organizational structures and management procedures in different international environments and the applications of important foreign developments in management for U.S. business. Usually offered every term. *Prerequisite:* 10.610.

12.606 International Banking (3) A focus on both the theory and practice of banking in an international context; also examines the reasons for the expansion of international banking, the economic role and operations of international financial markets, the strategies and activities of international banks, and the managerial problems encountered by international banks. Usually offered every fall. *Prerequisite:* 12.600 and 12.602.

12.690 Independent Study Project in Business Administration (1-6)

12.691 Internship (3–6) A work-study experience normally taken by students who have no previous professional work experience. Generally taken in the summer following the first year of graduate study. Design of project and monitoring through completion are details worked out among student, supervising faculty member, and employer. *Prerequisite:* 3.00 overall average or permission of associate dean.

12.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

12.701 Seminar in International Business (3) A seminar discussion of student research efforts on the conduct of international business in Western Europe, Latin America and the Caribbean, the Middle East and Africa, the Far East, or the Socialist countries. The research concentrates on the different business practices that are required because of the different cultural, economic, legal, and political environment of the region. Usually offered every spring. *Prerequisite:* 12.600.

Finance and Real Estate

Undergraduate Courses

Note: Junior standing is required to enroll in all KCBA courses at the 300 or 400 level.

13.201 Business Law (3) The scope of business law. Individual, business, and legal relationships. Legal concepts, philosophy, and functions. Federal and state court systems. Survey of contracts, sales, agency, business forms, and property. Introduction to negotiable instruments. Usually offered every term.

13.202 Advanced Business Law (3) Functions, form, and content of commercial paper. Law of real and personal property. Legal bibliography. Legal requirements of business. Case research. Usually offered every term. *Prerequisite:* 13.201.

13.212 Personal Finance (3) Investigation of the principles of personal financial management. Topics include budgeting, consumerism, taxes, credit, savings and savings instruments, insurance (life, health, automobile, fire, and proper-

ty), housing, investments (stocks, bonds, mutual funds, annuities, and real estate), and estate planning. Usually offered every term.

13.365 Corporate Finance (3) Introduction to business finance; acquisition and use of short-term funds and long-term capital; overview of money and capital markets; management of asset, liability, and capital accounts; financial analysis and time value of money; cash, operation, and long-range budgeting; leasing; corporate securities; dividend policy; and cost of capital. Usually offered every term. *Prerequisite:* 14.241 and junior standing.

13.370 Urban Development /S (3) Economic and other objectives in an urban society. The function of an urban economy and forces affecting urban development. Social change, market operations, and public facilities management. Rapid changes and associated land development. Economic base theory and theories of land development. Usually offered every fall.

13.373 Real Estate Principles and Transactions (3) Principles and practices of listing real property, agreement of sale, and title transfer of ownership and interests. Drawing documents: contracts, deeds, leases, financing, and other instruments. Private and public property rights, liens, taxes, assessments, and other claims on real estate. Mathematical problems for license examination. Approved for the real estate salesperson examination. Usually offered every term.

13.390 Independent Reading Course in Business Administration (1–6) *Prerequisite:* junior standing.

13.391 Internship in Business Administration (1–6) *Prerequisite:* junior standing.

13.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication. *Prerequisite:* junior standing and nine semester hours in business including any relevant business core courses specified by the department.

13.452 Business Responsibility in American Society /A, S (3) The conceptual and historical framework in which the American firm performs as an institution of the community. The relationship between business responsibility and public policy. Emphasis on student participation and cases. Usually offered every term. *Prerequisite:* junior standing.

13.460 Institute on Property Management I (3) Management of commercial and residential property. Rental values, neighborhood analysis, tenant selection, leasing, and tenant-owner relationships. Usually offered every fall. Has an institute fee in addition to tuition.

13.462 Real Estate Appraisal Principles (1) A comprehensive overview of the valuation process. Principles of gathering and analyzing data to be used in the three approaches to value. For students entering the field of real estate appraisal and working with residential or commercial properties. Usually offered every fall. Has a special tuition rate and institute fee.

13.463 Residential Valuation (2) A practical foundation in residential valuation. Topics include: the residential appraisal process; site data and analysis; highest and best-use analysis; improvements, inspection, and description; cost, income, and sales comparison approaches; special-purpose properties, including condominium, recreational, and residential; and short-form narrative reports and form reports. Usually offered every fall. Has a special tuition rate and institution fee. *Prerequisite:* 13.462.

13.464 Financial Markets and Institutions (3) The history, purposes, functions, and organizations of the short-term money market and long-term capital market. An integrated view of the participating institutions and the markets in which they operate, their investment constraints, and resulting portfolios. The role of the Federal Reserve System. Usually offered every term. *Prerequisite:* 13.365 and 19.306.

13.468 Financial Decision Making (3) Investment, financing, and dividend-policy decisions of the financial manager. Case studies and problems are some of the tools used to enable the student to make and see the effects of financial decisions. Usually offered every term. *Prerequisite:* 13.365.

13.469 Investment Analysis (3) Investment objectives. Methods of appraising corporate equity, debt, and other securities. Portfolio theory and management, technical analysis, random walk theory, and the role of institutional investors. Case studies and computer simulation are employed. Usually offered every term. *Prerequisite:* 13.365.

13.474 Real Estate Finance and Economics (3) Impact of the national economy on real estate; application of macroeconomics (GNP, consumer spending, inflation, interest rates, and other data) to housing and commercial property; mortgage market analysis, including ARMs and creative financing, secondary mortgage markets, MBSs, CMOs, and other new developments in real estate finance. Usually offered every term.

13.476 Real Estate Investment Strategy (3) Investment objectives, risks, and rewards. Resource characteristics and administration. Development decision and analysis, mortgage finance, cost and availability of funds, location analysis, property analysis, and valuation. Usually offered every term. Capstone course.

13.478 Basic Real Estate Law (3) A survey of the history and philosophy of real estate, its concepts and principles, legal relationships, and the functions of the law of real estate. Rights, fixtures, ownership, conveyance, acquisition, mortgages, agreements of sale, brokerage, landlord-tenant relations, zoning, eminent domain, and government regulations are covered. Usually offered every spring.

13.490 Independent Study Project in Business Administration (1–6)

Graduate and Advanced Undergraduate Courses

13.534 Basic Valuation Procedures (2) Topics include land site valuation, cost approach, market data approach, and income approach. Usually offered every fall. Has a special tuition rate and institution fee. *Prerequisite:* 13.462.

13.535 Capitalization Theory and Techniques A (1) A comprehensive study of the principles of the income approach to value. Comparative methods and techniques of income capitalization are identified and explored to give the entry-level appraiser a practical working knowledge of the capitalization process. Usually offered every spring. Has a special tuition rate and institution fee. *Prerequisite:* 13.462 and 13.534.

13.536 Capitalization Theory and Techniques B (2) The mathematics of yield capitalization wherein the fundamen-

tals of discounting processes are applied to various patterns of income and to future values. An introduction to investment value concepts for the appraiser involved in the valuation of income properties. Usually offered every spring. Has a special tuition rate and institute fee. *Prerequisite:* 13.535.

13.538 Case Studies in Real Estate Valuation (1) Designed to apply the principles, theories, and techniques presented in "Principles", "Procedures", and "Capitalization" courses in problem and case-study situations. Group-study methods are used to analyze and solve the case studies. Usually offered every fall. Has a special tuition rate and institute fee. *Prerequisite:* 13.537.

13.539 Valuation Analysis and Report Writing (2) Analysis of valuation situations and development of appraisal reports. A comprehensive case study will be used as the format for the course. For advanced students and practicing appraisers. Usually offered every fall. Has a special tuition rate and institute fee.

13.561 Institute on Property Management II (3) Advanced analysis of multi-unit apartments, office buildings, and shopping centers. Legal, tax, and financing aspects. Regional analysis and urban redevelopment. Creative management. Usually offered every spring. Has an institute fee in addition to tuition. *Prerequisite:* 13.460 or graduate standing.

13.566 Institute on Property Management IV (3) Advanced analysis of office building. Developing, leasing, and management. Feasibility studies, financing, leasing techniques, tenant suite development, parking, and remodeling. Usually offered every fall. Has an institution fee in addition to tuition. *Prerequisite:* 13.460 or graduate standing or permission of the program director.

13.590 Independent Reading Course in Business Administration (1–6)

Graduate Courses

13.604 Business, Government, and Society (3) Historic and contemporary relations of business, government, and society in America with emphasis on the impact of economic and social policies affecting the firm. Company management of business-government-societal relations, including methods of influencing public opinion, elections, and the public-policy process. Usually offered every term.

13.605 Financial Management (3) An examination of financial management theory, from the point of view both of the corporation as user of funds and of the investor as supplier of funds. Emphasis on interdependency between security analysis and cost of funds to the corporation. Introduction to security analysis, cost of capital, capital budgeting, and portfolio problems for the corporation and the investor. Usually offered every term. *Prerequisite:* 14.603.

13.648 Legal Concepts of Business Organizations (3) An intensive introduction to law and the legal system. Usually offered every term.

13.665 Financial Statement Analysis (3) Appraisal of prevailing techniques of statement analysis. Significance of generally accepted accounting principles. Development of analytic methods from the viewpoint of financial management. Usually offered every fall. *Prerequisite:* 13.605.

13.666 Long-Term Capital Management (3) An examination of the investment, financing, and dividend policy decisions of firms. Emphasis on theoretical and applied techniques through case analysis and financial simulation. Usually offered every term. *Prerequisite:* 13.605.

13.667 Short-Term Funds Management (3) Managerial knowledge of the money market from the viewpoint of the financial manager meeting short-term requirements and investing temporarily excess idle funds. Means of investing idle funds commensurate with risk and return. Emphasis on techniques of managing corporate short-term investment portfolios. Usually offered every term. *Prerequisite:* 13.605.

13.668 Advanced Investment Analysis (3) Critical evaluation of current methods of analyzing and selecting securities. Investment theories and timing. Portfolio construction and management. Efficient capital markets and technical analysis. Usually offered every term. *Prerequisite:* 13.605.

13.671 Financial Management of Depository Institutions (3) Factors determining management policies, and services offered by individual depository institutions. Internal capital resources, market development, profitability of functions, and relations to other depository institutions. Usually offered every term. *Prerequisite:* 13.605.

13.678 Real Estate and Property Law (3) Survey of the history and philosophy of real estate, its concepts and principles, legal relationships, and the functions of the law of real estate. Rights, fixtures, ownership, conveyance, acquisition, mortgages, agreements of sale, brokerage, landlord-tenant relations, zoning, eminent domain, and government regulations. Case study and research; field research. Usually offered every fall.

13.679 Real Estate and Land Economics (3) Macroeconomics related to the study of real estate. Studies of residential and commercial development; public facilities and improvements. Location theory, economic base, location and project difficulties and opportunities, land values and uses, urban rehabilitation and restoration and neighborhood change. Washington-area and selected case studies. Research on a land-development project. Usually offered every fall.

13.683 Real Estate Analysis (3) Market studies, feasibility analysis, re-use studies, appraisal, public-sector cost-benefit and opther types of analyses relating to demand and supply of real estate in local markets. Sources of information. Analysis of population, changing city, and residential and commercial real estate. Forecasting. Specific research on real estate sites and projects. Usually offered every fall. *Prerequisite:* 13.684 recommended.

13.684 Real Estate Finance and Mortgage Markets (3) Financing instruments and methods used in real estate. Sources and uses of private funds, mortgage markets, primary and secondary mortgage market-makers, and investment-type instruments. Alternative mortgage instruments and creative financing techniques. Selected case studies and research. Usually offered every spring. *Prerequisite:* 13.605.

13.685 Land Use and Development (3) Property development by the private sector. Land values and uses. Location problems and opportunities of households, businesses, and industry. Changes in land-use patterns produced by market forces and public policies. The study of "quality" projects produced in the private marketplace. Usually offered every spring.

13.690 Independent Study Project in Business Administration (1–6)

13.691 Internship (3–6) A work-study experience normally taken by students who have no previous professional work experience. Generally taken in the summer following the first year of graduate study. Design of project and monitoring through completion are details worked out among student, supervising faculty member, and employer. *Prerequisite:* 3.00 overall average or permission of associate dean.

13.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

13.765 Seminar in Finance (3) Current issues and recent developments in corporate financial management, investments, and commercial banking. Review of literature to cover the entire area of business finance. Usually offered every spring and summer. *Prerequisite:* three advanced finance courses or permission of department chair.

13.776 Seminar in Real Estate and Urban Development (3) Capstone seminar dealing with problems of managing real estate resources and related business enterprises. Management of urban development in a changing environment. Decision making in an uncertain economy. Individual field-research projects. Required for all graduate real estate majors. Usually offered every spring. *Prerequisite:* permission of senior professor of real estate.

Accounting and Taxation

Undergraduate Courses

Note: Junior standing is required to enroll in all KCBA courses at the 300 or 400 level.

14.230 Taxation for Nonaccountants (3) An introduction to taxation of individuals. Some coverage of business tax returns, tax planning, and when to consult an expert. Includes tax computation and what is taxable and deductible. Usually offered every term.

14.240 Principles of Accounting I (3) Basic principles underlying financial statements. Assets, equities, and income measurement. Usually offered every term. *Prerequisite:* sophomore standing.

14.241 Principles of Accounting II (3) Continuation of 14.240. Introduction to fundamentals of management accounting for planning and control. Uses of accounting data. Usually offered every term. *Prerequisite:* 14.240.

14.340 Intermediate Accounting I (3) Valuation of assets and equities. Measurement of business income. Generally accepted accounting principles. Financial statements and analysis. Usually offered every term. *Prerequisite:* 14.241, junior standing, and a C or better in 14.240 and 14.241.

14.341 Intermediate Accounting II (3) Continuation of 14.340. Accounting issuances by the APB and FASB. Financial statements and analysis. Usually offered every term. *Prerequisite:* 14.340.

14.345 Cost Accounting (3) Uses of accounting data for planning, control, and decision making. Budgets and standard costs. Concepts and techniques. Usually offered every term. *Prerequisite:* 14.241 and junior standing.

14.390 Independent Reading Course in Business Administration (1–6) *Prerequisite:* junior standing.

14.391 Internship in Business Administration (1–6) *Prerequisite:* junior standing.

14.443 Taxation I (3) Introduction to federal income taxation of individuals. *Prerequisite:* 14.241 and junior standing.

14.444 Taxation II (3) Selected topics in federal income tax for individuals, partnerships, and corporations. Specialized areas such as estates and trusts. Usually offered every term. *Prerequisite:* 14.340 and 14.443.

14.449 Auditing (3) Auditing objectives, standards, and procedures. Audit workpapers. Tests and sampling. Usually offered every term. *Prerequisite:* 14.341.

14.450 Introduction to Accounting Information Systems (3) Concepts and techniques of analyzing computer-based accounting information systems. Usually offered every term. *Prerequisite:* 14.345 or permission of department chair.

14.480 Accounting Theory and Problems (3) Accounting issuances of FASB and APB. General principles of theory. General price level and current value. Usually offered every term. *Prerequisite:* 14.341.

14.490 Independent Study Project in Business Administration (1–6)

Graduate and Advanced Undergraduate Courses

14.540 Governmental and Fiduciary Accounting (3) Municipal, state, federal government, and not-for-profit accounting and the traditional coverage of estates and trust and corporate reorganization and liquidation. Usually offered every spring. *Prerequisite:* 14.341 and permission of department chair.

14.547 Advanced Financial Accounting (3) Theory and practices of accounting for partnerships, business combinations, and consolidated financial statements. Advanced topics in financial accounting. Usually offered every term. *Prerequisite:* 14.341 or 14.641.

14.590 Independent Reading Course in Business Administration (1–6)

Graduate Courses

14.603 Accounting Concepts and Applications (3) Fundamentals, concentrating on the uses of accounting as a tool of management. The strengths and limitations of accounting as an information system. Topics selected from both financial and managerial aspects of accounting and focus on the underlying concepts of accounting, the role of accounting in management planning and control, and the usefulness of accounting data for evaluating the results of operations and making decisions. Usually offered every term.

14.604 Federal Income Taxation (3) A study of federal income tax laws relating to individuals, partnerships, and corporations. Usually offered every term. *Prerequisite:* 14.603 or permission of department chair.

14.630 Legislative and Judicial Foundations of Income Tax (3) Legislative and judicial concepts common to all areas of income taxation. Emphasis on analysis of court decisions to trace the development of judicial doctrines. Subject areas: substance over form, characteristics of income, dispositions of assets, capital gains and losses, tax credits, limitations on business expenses and losses, tax accounting principles. Usually offered every term. *Prerequisite:* admission to the

graduate tax program or permission of the program director.

14.631 Tax Research and Procedure (3) Thorough analysis of techniques for performing sophisticated tax research: looseleaf services, treatises, IRS sources, court decisions. Analysis of tax procedure: IRS organization; audit procedures; assessment, collection, and refund; limitations; penalties; responsibility in tax practice. Emphasis on practical applications. Usually offered every term. *Prerequisite:* admission to the graduate tax program or permission of the program director.

14.632 Estate and Gift Tax (3) Detailed analysis of the federal estate and gift taxes and an overview of the income taxation of estates and trusts (Subchapter J). Usually offered every spring. *Prerequisite:* 14.630, which may be taken concurrently.

14.633 Corporation Income Taxation I (3) Income taxation of corporations and their shareholders: organization, capital structure, dividends and other nonliquidating distributions, redemptions, liquidations, taxation of S corporations. Usually offered every fall. *Prerequisite:* 14.630 or permission of the program director.

14.634 Partnership Taxation (3) Income tax aspects of transfers to a partnership, distributions, withdrawal or death of a partner, dissolution, sales and exchanges of partnerships interests, special partnership allocations, use of the partnership as a vehicle for investment syndication. Usually offered every term. *Prerequisite:* 14.630 and 14.633.

14.640 Financial Accounting I (3) Conceptual framework, methodological approaches, and problematic applications of financial accounting theory. Emphasis on the relationship between generally accepted accounting principles and the preparation of financial statements. Usually offered every term. *Prerequisite:* 14.603 or permission of department chair.

14.641 Financial Accounting II (3) A continuation of 14.640 with special emphasis on financial accounting issues and problems related to authoritative pronouncements of the APB and FASB. Income measurement, valuation of assets and equities, and financial reporting and analysis. Usually offered every term. *Prerequisite:* 14.640.

14.645 Managerial Cost Accounting (3) Uses of accounting data for managerial decision making. Concepts and techniques of planning and control relating to budgets, standard costs, and relevant costs. Cost accounting systems: job order and process. Usually offered every term. *Prerequisite:* 14.603.

14.649 Auditing Theory and Practice (3) Auditing objectives and procedures. Generally accepted auditing standards, audit tests, sampling procedures and reporting requirements. Professional ethics. Usually offered every term. *Prerequisite:* 14.641.

14.650 Accounting Information Systems (3) Concepts and techniques of analyzing, designing, and implementing accounting information systems. Evaluation of computer and non-computer-based information systems for organizations of various kinds. Usually offered every fall. *Prerequisite:* 14.345 or 14.645 and permission of department chair.

14.652 Advanced Auditing (3) Selected auditing topics and concepts at a level of sophistication and depth beyond that possible in a basic course. Special emphasis on statistical sampling techniques, auditing in an EDP environment, internal (operational) auditing, and current developments. Usually offered every spring. *Prerequisite:* 14.649.

14.690 Independent Study Project in Business Administration (1–6)

14.691 Internship (3–6) A work-study experience normally taken by students who have no previous professional work experience. Generally taken in the summer following the first year of graduate study. Design of project and monitoring through completion are details worked out among student, supervising faculty member, and employer. *Prerequisite:* 3.00 overall average or permission of associate dean.

14.710 Contemporary Accounting Problems (3) The nature of current accounting principles and the theoretical foundation and conflicts relating to contemporary problems in accounting. Usually offered every fall. *Prerequisite:* permission of department chair.

14.739 Managerial Accounting and Business Policy (3) Integration of managerial aspects of accounting, business policy, and the managerial functions of strategic decision making, planning, and control. Consideration of both quantitative and behavioral aspects. Case methodology. Usually offered every spring. *Prerequisite:* 14.641, 14.645, and permission of department chair.

14.740 Corporation Income Taxation II (3) A continuation of 14.633: accumulated earnings and personal holding-company penalty taxes, collapsible corporations, corporate reorganizations, carryover of corporate tax attributes, multiple corporations, and consolidated returns. Usually offered every spring. *Prerequisite:* 14.630 and 14.633.

14.741 State and Local Taxation (3) Examination of the constitutional and practical constraints on taxing jurisdiction of state and local governments. Topics: conformity with federal law, apportionment of income, multistate and multinational corporation problems, transaction taxes, property taxes, death and gift taxes. Detailed analysis of the Uniform Division of Income for Tax Purposes Act (UDITPA). Offered irregularly. *Prerequisite:* admission to the graduate tax program or permission of the program director.

14.742 Special Tax Topics (1–3) Selected specialized tax topics or analysis of current tax legislation. Topics might include taxation of banks, insurance companies, security transactions, tax exempt organizations, cooperatives, or natural resources. May be repeated for credit within the same term; topic must be different. Offered irregularly. *Prerequisite:* permission of the program director.

14.743 International Taxation (3) U.S. citizens and businesses abroad and resident and nonresident alien tax status. *Prerequisite:* 14.604, 14.631, and 14.633 or permission of department chair.

14.744 Advanced Topics in Tax Accounting and Procedure (3) A continuation of the tax accounting and procedure coverage in the core courses. Tax accounting: long-term contracts advanced inventory considerations. Procedure: written determinations and rulings, liens, crimes, judicial proceedings, mitigation of limitations. Offered irregularly. *Prerequisites:* 14.630 and 14.631.

14.745 Employee Benefit Tax Planning (3) Analysis of income tax aspects of compensation benefits for employees at

all levels and for self-employed persons. Detailed consideration of qualified pension and profit-sharing plans, individual retirement accounts, Keogh plans, statutory and nonstatutory stock options, and other fringe benefits (life insurance, medical plans, etc.). Usually offered every spring. *Prerequisite:* 14.630.

14.746 Taxation of Real Estate Transactions (3) Income tax aspects of acquiring, operating, and disposing of investment and personal real estate. Detailed consideration of deductions (including ACRS), conventional and creative financing techniques, foreclosures and repossessions, subdivision, sale/leaseback transactions, tax-defered exchanges, involuntary conversions, sale of a principal residence, and special problems of agricultural property. Usually offered every spring. *Prerequisite:* 14.630 or permission of the program director.

14.750 Tax Policy (3) Analysis of the interrelationship of economic, social, and political forces in the development of coherent tax policy. The roles of legislative process, administration, and IRS. Analysis of alternative taxing systems such as flat taxes, value-added taxes, and others. Usually offered every spring. *Prerequisite:* final semester of the graduate tax program or permission of the program director.

14.751 Seminar in Business Tax Planning (3) Use of case methodology to integrate tax considerations with accounting, economic, managerial, and nontax legal considerations for planning corporate transactions. Topics: organization of a close corporation, dividends and other corporate distributions, corporate combinations, corporate liquidations, corporate divisions. Usually offered every spring. *Prerequisite:* 14.633; 14.740 or permission of the program director.

14.752 Seminar in Family Financial Planning (3) Use of case methodology to integrate income, estate, and gift tax implications with nontax legal considerations in establishing a financial plan within the family unit. Included is detailed consideration of income taxation of estate and trusts (Subchapter J). Topics: estate-planning legal mechanisms, charitable and family gifts, private foundations, disposal of business interests. Usually offered every fall. *Prerequisite:* 14.632.

14.780 Seminar in Accounting Theory (3) Development of accounting theory. Analysis of current accounting problems and review of relevant literature. Usually offered every spring. *Prerequisite:* 14.547 and permission of department chair.

Chemistry

Undergraduate Courses

15.101 Chemistry and Society /N (3) The impacts of toxic materials and biotechnology on society. How scientists think and obtain and evaluate information, with emphasis on cancer-causing chemicals. Basic concepts in chemistry and biochemistry, leading up to the revolutionary capabilities of modern biotechnology. The methods and impacts of new diagnostics, genetic screening, manipulation of heredity, and production of previously unavailable materials. Usually offered every fall.

15.102 Toxicology: Chemistry of Poisons /N (3) The application of chemistry and biology to the study of environmental pollutants, drugs, toxins, and food additives as they affect physiological systems. Principles of toxicology, teratology, and reproduction, carcinogenesis, and chemical structure. Introductory course for non-science majors. One year of physiology and one year of chemistry are recommended but not required. Usually offered every fall and spring.

15.103 Earth Sciences /N (3) Survey of earth features and processes: time, weather, climate, oceans, minerals, rocks, land forms, glaciers, volcanoes, earthquakes, origin and development of life, geologic history, and resources. Usually offered every fall.

15.120 General Chemistry I /N (3) Stoichiometry and chemical reactions. Atomic theory, electronic configuration, bonding, molecular structure, periodic table, and gases. Must be taken concurrently with 15.121. Three hours of lecture and one hour of seminar. Usually offered every fall and summer.

15.121 General Chemistry I Laboratory /N (1) Laboratory work associated with the material in 15.120. Three hours of laboratory. Must be taken concurrently with 15.120. Usually offered every fall and summer.

15.130 General Chemistry II /N (3) Kinetics and equilibrium. Thermodynamics. Electrochemistry. Elements and their compounds treated systematically. Must be taken concurrently with 15.131. Three hours of lecture and one hour of seminar. Usually offered every spring and summer. *Prerequisite:* 15.120.

15.131 General Chemistry II Laboratory /N (1) Laboratory work associated with the material in 15.130. Qualitative inorganic analysis. Three hours of laboratory. Must be taken concurrently with 15.130. Usually offered every spring and summer.

15.310 Organic Chemistry I (3) Systematic treatment of hydrocarbons, alkyl halides, alcohols, carbonyl compounds, acids, and their derivatives. Ionic and free radical reactions and stereochemistry. Must be taken concurrently with 15.312. Three hours of lecture and one hour of seminar. Usually offered every fall and summer. *Prerequisite:* 15.130.

15.312 Organic Chemistry I Laboratory (1) Laboratory theory and practice in synthesis, separation, and purification of organic compounds. Introduction to modern separation techniques including thin-layer, column, and gas chromatography. Usually offered every fall and summer. *Prerequisite:* concurrent registration in 15.310.

15.320 Organic Chemistry II (3) Aliphatic and aromatic compounds and electrophilic substitution; spectral methods; and nitrogen compounds and their derivatives. Introduction to polyfunctional compounds including amino acids, carbohydrates, lipids, and nucleic acids. Must be taken concurrently with 15.322. Three hours of lecture and one hour of seminar. Usually offered every spring and summer. *Prerequisite:* 15.310.

15.322 Organic Chemistry II Laboratory (1) Multistep syntheses. Synthesis of polyfunctional compounds. Introduction to infrared and nuclear magnetic resonance spectra. Qualitative organic analysis. Four hours of laboratory. Usually offered every spring and summer. *Prerequisite:* concurrent registration in 15.320.

15.350 Quantitative Analysis (3) Theory of acid-base, complexation, precipitation, and redox equilibria. Volumetric

and gravimetric analyses. Separations. Statistical analysis of data. Separation and analysis of complex mixtures. Must be taken concurrently with 15.351. Usually offered every fall. *Prerequisite:* 15.130 and 41.221.

15.351 Quantitative Analysis Laboratory (2) Practice in classical analytical methods of analysis, including precipitation titrations and gravimetric analysis; neutralization titrations and potentiometric methods; oxidation, reduction, and complex formation titrations; and electrochemical methods. Computer-assisted statistical analysis of data. Six hours of laboratory. Usually offered every fall. *Prerequisite:* concurrent registration in 15.350.

15.390 Independent Reading Course (1–6)

15.398 Departmental Honors: Junior Year (1–3) Work on an independent chemical laboratory research project under the direction of a faculty adviser. Progress reports may be required at the discretion of the adviser. Usually offered every fall. *Prerequisite:* 15.322 and concurrent registration in 15.507.

15.399 Departmental Honors: Junior Year (1–3) See description of 15.398. Usually offered every spring and summer. *Prerequisite:* 15.322, 15.507, and a grade of B or better in 15.398 if taken.

15.410 Physical Chemistry I (3) Properties of gases; kinetic molecular theory; quantum mechanics; energies of collections of molecules; first law of thermodynamics; thermochemistry; free energy; and chemical equilibrium. Must be taken concurrently with 15.411. Usually offered every fall. *Prerequisite:* 15.320, 51.221, and prior or concurrent registration in 41.223.

15.411 Physical Chemistry I Laboratory (2) Mathematical techniques; high vacuum systems; gamma of gases; heats of solutions; thermocouples; refractometry; fluid viscosity; rates of reactions; electrical conductivity; and ionization constants, free energy, enthalpy, and entropy of an electrochemical reaction. Must be taken concurrently with 15.410. One hour of lecture and three hours of laboratory. Usually offered every fall.

15.420 Physical Chemistry II (3) Electrolytes in solution; EMF of chemical cells; chemical kinetics; quantum mechanics and atomic structure; chemical bonding; and spectroscopic methods. Must be taken concurrently with 15.421. Usually offered every spring. *Prerequisite:* 15.410.

15.421 Physical Chemistry II Laboratory (2) Franck-Hertz experiment, operation of oscilloscopes and electroscopes, Faraday effect, Hall effect, magnetic susceptibility, dielectric constant, spectrum of beta-carotene, viscosity of polymers, molecular weight by light scattering, critical surface tension, and tensile strength of polymers. Must be taken concurrently with 15.420. One hour of lecture and three hours of laboratory. Usually offered every spring.

15.460 Instrumental Analysis (3) Theory of optical and electroanalytical methods, including spectrophotometry, fluorometry, spectrography, and flame and atomic spectroscopy, ion-selective electrodes, polarography; amperometry; mass spectrometry; chromatography; electronics; radiometric techniques; isotope dilution; and neutron activation analysis. Analysis of errors. Must be taken concurrently with 15.461. Usually offered every spring. *Prerequisite:* 15.350 and 41.222; must be taken concurrently with 15.461.

15.461 Instrumental Analysis Laboratory (2) Practice in modern methods of instrumental analysis including atomic absorption and emission spectroscopy; gas and high pressure liquid chromatography; nuclear magnetic resonance, ultraviolet, visible, infrared, and fluorescence spectroscopy; and measurements with ion selective electrodes. Six hours of laboratory. Usually offered every spring. *Prerequisite:* concurrent registration in 15.460.

15.490 Independent Study Project (1–6)

15.491 Internship (1–6)

15.498 Departmental Honors: Senior Year (1–3) See description of 15.398. Usually offered every fall. *Prerequisite:* 15.421, 15.461, prior or concurrent registration in 15.507, and a grade of B or better in 15.399 if taken.

15.499 Departmental Honors: Senior Year (1–3) See description of 15.398. A senior thesis must be written and the results of research presented at a departmental seminar. Usually offered every spring. *Prerequisite:* a grade of B or better in 15.498.

Graduate and Advanced Undergraduate Courses

15.501 Principles of Analytical Chemistry (3) For beginning graduate students. Spectroscopic and chromatographic techniques, electrochemistry, and data treatment. Two hours of lecture and three hours of laboratory. Usually offered every spring. *Prerequisite:* 15.350.

15.502 Principles of Physical Chemistry (3) For life scientists, biology majors, and toxicologists. Molecular structure, gases, crystals, liquids, molecular spectra, acid-base reactions, thermochemistry and the first law of thermodynamics, entropy and the second law, free energy, electrochemistry, equilibria, chemical kinetics, reaction mechanisms, and transport processes. Usually offered every fall. *Prerequisite:* 15.130.

15.504 Principles of Biochemistry (3) One-semester survey of biochemistry. No credit for biochemistry majors or Ph.D. students in chemical toxicology. Cell structure of amino acids, proteins, carbohydrates, lipids, and nucleic acids. Enzymatic catalysis. Glycolysis, citric acid cycle, oxidative phosphorylation. DNA replication and repair, gene expression. Membranes, transport, and signal transmission. Immunoglobulins. Genetic engineering and monoclonal antibodies. Oncogenes. *Prerequisite:* 15.320.

15.506 Human Biochemistry (3) Cell structure. Structures and functions of amino acids, peptides, and proteins. Characteristics of blood, hemoglobin, and enzymes. Central metabolism and bioenergetics. Neurotransmission and muscle contraction. Metabolism of carbohydrates, fatty acids, lipids, and amino acids. Hormonal regulation. Experiments coordinated with the lectures. Two hours of lecture and two hours of laboratory. May not be used to fulfill requirements in either chemistry or biology graduate degree programs. Usually offered every spring. *Prerequisite:* 15.130 or permission of the director of the Health/Fitness Management program.

15.507 Chemical Literature (1) Abstracts, journals, patents, and other sources. Practice in conducting library and on-line computer literature searches. One hour of lecture and occasional laboratory sessions. Usually offered every fall. *Prerequisite:* 15.320.

15.520 Advanced Organic Chemistry I (3) Principles of physical organic chemistry. Bonding and conformational analysis; nucleophilic substitution at carbon; elimination and addition reactions; carbene chemistry; and cycloaddition reactions. Usually offered every fall. *Prerequisite:* 15.420.

15.521 Advanced Organic Chemistry II (3) Synthetic and mechanistic aspects of the chemistry of carbonyl compounds. Acylations, alkylations, and other condensations; oxidation and reduction reactions. Application of orbital symmetry correlations to organic reactions. Usually offered every spring. *Prerequisite:* 15.520.

15.522 Interpretation of Spectra (3) Practical interpretation of ultraviolet, infrared, nuclear magnetic resonance, and mass spectra for organic chemists and biochemists. Elucidation of structures and kinetic processes. Usually offered every spring. *Prerequisite:* 15.420.

15.525 Problem Solving in Organic Chemistry (1) Provides experience in solving problems in mechanistic and synthetic organic chemistry for graduate students planning to take comprehensive examinations in organic chemistry. Usually offered every fall. *Prerequisite:* 15.520 and 15.521.

15.546 Thermodynamics and Statistical Mechanics (3) Mathematical techniques, laws, free energy functions, empirical methods for evaluating reaction feasibility; mixtures, solutions, and statistical thermodynamics. Usually offered alternate falls. *Prerequisite:* 15.420.

15.550 Advanced Inorganic Chemistry (3) Electronic structure of atoms, periodic trends, bonding and structure of covalent compounds, electronegativity, bonding and structure of coordination complexes, acids and bases, organometallic chemistry, and bioinorganic chemistry. Usually offered every fall. *Prerequisite:* 15.420.

15.551 Topics in Inorganic Chemistry (3) Molecular symmetry, transition metal spectra, mechanisms of inorganic reactions, boron chemistry, organometallic chemistry, inorganic polymers, bioinorganic chemistry, and energy conversion. Usually offered alternate springs. *Prerequisite:* 15.550.

15.560 Biochemistry I (3) Structures and functions of subcellular components and intracellular transport. Hydrogen bonding. Structures and functions of amino acids, peptides, and proteins. Hemoglobin, allostery, and sickle-cell anemia. Enzyme kinetics and mechanisms. Protein activation in digestion, blood clotting, and the immune response. Membrane structures and functions. Three hours of lecture and one hour of seminar. Usually offered every fall. *Prerequisite:* 15.320.

15.561 Biochemistry II (3) Metabolic principles, bioenergetics and glycolysis. Mitochondrial functions, Krebs cycle, electron transport, and oxidative phosphorylation. Phosphogluconate pathway. Carbohydrate, fatty acid, amino acid, and mononucleotide metabolism. Photosynthesis. Lipid synthesis. Nitrogen fixation. Transmethylation. Introduction to DNA replication, transcription, and translation. Genetic change. Three hours of lecture and one hour of seminar. Usually offered every spring. *Prerequisite:* 15.560.

15.562 Biochemistry I Laboratory (2) Experiments coordinated with the material taught in 15.560. Volumetric analysis, temperature effects on buffers, and computer-assisted data reduction. Amino acid structure determination using C-13 NMR spectroscopy. Peptide sequencing employing paper chromatography. Computer-assisted modeling of protein structures. Blood hemoglobin clinical analysis. Luciferin-luciferase bioluminescence assays of ATP. Spectrophotometric assay and computer-assisted analysis of enzyme kinetics and inhibition of chymotrypsin. One hour of lecture and three hours of laboratory. Usually offered every fall. *Prerequisite:* concurrent registration in 15.560.

15.563 Biochemistry II Laboratory (2) Experiments coordinated with the material taught in 15.561. Polarimetric and NMR studies of carbohydrates mutarotation and computer-assisted data analysis. Phospholipid analysis employing enzymatic degradation and high pressure liquid and gas chromatography. Individual projects such as Ames tests for chemical mutagens and carcinogens. One hour of lecture and three hours of laboratory. Usually offered every spring. *Prerequisite:* 15.562 and concurrent registration in 15.561.

15.564 Biochemistry III (3) Organization, replication, repair, expression, and movement of procaryotic and eucaryotic DNA. Viruses. Immunoglobulin structure and diversity. Membranes, receptors, and information transfer. Oncogenes. Biotechnology methods and applications of DNA restriction, sequencing, cloning, and probing. Monoclonal antibody production and applications. Usually offered alternate falls. *Prerequisite:* 15.561.

15.570 Computers in Chemistry (3) Introduction to applications of electronic computers in chemistry. Practice in using interactive and batch mode programs. Algorithms, flow charts, and elementary programming in BASIC. Word processing. Communication between main-frame and microcomputers. NMR simulations and use of a Fourier Transform NMR spectrometer. Use of on-line computers including chemical information systems. Three hours of lecture with occasional laboratory sessions. Usually offered alternate falls. *Prerequisite:* 15.320 and 40.280.

15.581 Principles of Toxicology (3) This course is designed to familiarize students with basic principles of how chemicals, drugs, and natural products alter biological systems. Mechanisms and conditions under which harmful effects may occur are emphasized. Also considered are biological and chemical factors that influence toxicity; routes of administration; experimental design; special tests; statistical analysis of data; extrapolation of animal data to man; and regulatory aspects of toxicology. Usually offered every fall. *Prerequisite:* 15.320.

15.590 Independent Reading Course in Chemistry (1–6)

Graduate Courses

15.600 Advanced Physical Chemistry I (3) Kinetic molecular theory, Boltzmann statistics, transport phenomena, quantum topics (radiation, tunneling, superconductivity), partition functions, and elementary statistical thermodynamics. Usually offered every fall. *Prerequisite:* 15.420.

15.601 Advanced Physical Chemistry II (3) Molecular electrical properties, intermolecular interactions, molecular magnetic properties, chemical kinetics (fast reactions emphasized), and class-selected topics. Usually offered every spring. *Prerequisite:* 15.600.

15.608 Special Topics in Physical Chemistry (3) Presentation of current research activity. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* 15.600.

15.610 Advanced Analytical Chemistry (3) Modern techniques, including ion-selective electrodes, fluorescence and phosphorescence analysis, atomic absorption spectrometry, far infrared spectroscopy, nuclear magnetic resonance, microwave spectroscopy, nuclear quadrupole spectroscopy, electron and photoelectron spectroscopy, neutron activation analysis, and the use of computers. Usually offered alternate falls. *Prerequisite:* 15.460.

15.618 Special Topics in Analytical Chemistry (3) Presentation of current research activity. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* 15.610.

15.628 Special Topics in Organic Chemistry (3) Woodward-Hoffman Orbital Symmetry Correlation Rules and their application; organic photochemistry; heterocyclic chemistry; applications of NMR to the study of rates of dynamic processes. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* 15.521.

15.632 High Polymer Chemistry (3) Addition and condensation polymerization kinetics, statistics of linear polymers, thermodynamics of solutions, phase equilibria, and characterization of polymers by osmotic pressure, light scattering, viscometry, and gel permeation chromatography, and introductory rheology. Usually offered alternate falls. *Prerequisite:* 15.420.

15.640 Colloid and Surface Chemistry (3) Solid and liquid surfaces, intermolecular interactions, electrical properties of interfaces, foams, colloids, critical surface tension of polymers, and thermodynamics of interfaces. Usually offered alternate springs. *Prerequisite:* 15.420.

15.642 Chemical Kinetics (3) Order and molecularity of reactions. Activated complex theory for elementary reactions. Reactions in solutions and on surfaces. Complex reaction mechanisms. Nonisothermal kinetics. Usually offered alternate falls. *Prerequisite:* 15.420.

15.661 Enzyme Kinetics and Mechanisms (3) Computer-assisted modeling of protein structures. Chemical catalysis. Enzyme kinetics and computer-assisted determination of kinetic parameters. Approximation, distortion, covalent catalysis, general acid-general base catalysis, hydrogen bonding, and hydrophobic and electrostatic effects in enzyme mechanisms. Physical studies of enzymes. Isotope effects, pH effects, chemical modification, affinity labeling, and transition-state analog inhibition in studies taken from the current literature. *Prerequisite:* 15.561.

15.664 Chemistry of Carbohydrates (3) Elucidation of chemical structures, conformations, and reactions of monosaccharides. When pertinent, the biological activity of a given carbohydrate is considered. Usually offered alternate falls. *Prerequisite:* 15.560.

15.667 Current Biochemical Literature (1) Consideration of articles from recent issues of biochemical journals. This course is intended to foster discrimination in selecting papers, an analytical approach to reading, and the ability to retain the critical elements presented. These abilities should be of particular value in preparing for comprehensive examinations. May be repeated for credit but not within the same term; content must be different. Usually offered every spring. *Prerequisite:* 15.564.

15.680 Chemical Mutagens and Carcinogens (3) Metabolic activation and deactivation, and mechanisms of action of polycyclic aromatic hydrocarbons, aromatic amines, azo and N-nitroso compounds, nitro aromatics, natural products, and alkylating agents. Short-term testing methods. Usually offered every spring. *Prerequisite:* 15.561; 15.581 and 15.564 are recommended.

15.681 Bioinorganic Chemistry (3) Metals in biochemistry, with emphasis on metal toxicity and metabolism of toxicants. Natural abundance, uptake, and storage. Diseases of deficiency and excess. Iron and copper in oxygen carriers and redox enzymes. Cobalt and group transfers. Zinc metalloenzymes. Nitrogenase. Group Ia and IIa metals. Toxic metals. Usually offered alternate falls. *Prerequisite:* 15.320; 15.550 is recommended.

15.682 Toxicological Testing (3) The course emphasizes toxicological testing procedures including fast tests such as the Ames Test and other short-term toxicological methods that are under development. The theoretical basis for the tests, as well as the theoretical and experimental limitations, is included. Usually offered every spring. *Prerequisite:* 15.320. Concurrent registration in 15.680 is recommended.

15.690 Independent Study Project (1–6)

15.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* completion of nine semester hours of graduate course work in chemistry and permission of the coordinator of Cooperative Education.

15.700 Seminar in Chemistry (1) Selected topics. Preparation and presentation of a paper of professional quality. Usually offered every fall and spring. *Prerequisite:* 15.507 and twelve graduate semester hours of chemistry.

15.797 Master's Thesis Research (1–6)

15.799 Doctoral Dissertation Research (1–20)

Business Administration

Public Relations Management

Graduate and Advanced Undergraduate Course

16.590 Independent Reading Course in Business Administration (1–6)

Graduate Courses

16.650 Principles of Public Relations (3) Historical development and economic and social factors in relations between public and media in the formation of public opinion. Case studies of current practices. Usually offered every term. Open only to students currently admitted to the KCBA Public Relations Management program.

16.651 Public Relations in Business (3) Case studies in business and industrial relationships with various publics, e.g., labor, trade, dealer, customer, stockholder, and community. Usually offered every term. *Prerequisite:* 16.650. Open only to students currently admitted to the KCBA Public Relations Management program.

16.652 Public Relations Promotional Campaigns (3) Case studies of promotional method business, government, and

social organizations. Each student develops a promotional campaign for an institution in Washington. Usually offered every spring. *Prerequisite:* 16.650. Open only to students currently admitted to the KCBA Public Relations Management program.

16.653 International Public Relations (3) Problems of public relations in international affairs; case studies of public relations practices of American business in other countries. *Prerequisite:* 16.650. Open only to students currently admitted to the KCBA Public Relations Management program.

16.655 Public Relations Law (3) Legal implications and consequences of the work of public-relations practitioners. Law that practitioners must be aware of to do their work intelligently. Usually offered every term. *Prerequisite:* 16.650. Open only to students currently admitted to the KCBA Public Relations Management program.

16.656 Public Relations and Government (3) Analysis of public information programs conducted by government agencies to influence various publics and institutions. Intensive research and journalistic reporting of actual programs in Washington. Usually offered every spring. *Prerequisite:* 16.650. Open only to students currently admitted to the KCBA Public Relations Management program.

16.657 Public Relations for Nonprofit Organizations (3) Public relations practices of labor, farm, welfare, hospital, and educational institutions. How the nonprofit sector interacts with business, government, and communications media. Usually offered every term. *Prerequisite:* 16.650. Open only to students currently admitted to the KCBA Public Relations Management program.

16.658 Public Relations Writing (3) The basics of publicity writing, including the preparation of press releases, magazine query letters, and articles. Usually offered every term. Open only to students currently admitted to the KCBA Public Relations Management program.

16.659 Audio-Visual Media Methods (3) The basics of publicity writing, including preparation of press releases, spot announcements for radio and television, and techniques in preparing material for radio and television. Usually offered every term. Open only to students currently admitted to the KCBA Public Relations Management program.

16.660 Public Opinion and Persuasion (3) Attitudes and public opinion; how they have been influenced through propaganda techniques. Specific topics include formation of attitudes, attitude change, nature and measurement of public opinion, methods of persuasion, and historical uses of propaganda. Usually offered every fall. *Prerequisite:* 16.650. Open only to students currently admitted to the KCBA Public Relations Management program.

16.661 Public Relations Management (3) Strategies and practices used by public relations managers in business, public agencies, and nonprofit institutions, with emphasis on how programs and campaigns are planned, created, budgeted, executed, and evaluated. Students work with a Washington-area client. Usually offered every fall. *Prerequisite:* 16.650, 16.655, 16.789. Open only to students currently admitted to the KCBA Public Relations Management program.

16.662 Public Relations Photography (3) Enhancing public relations efforts through photography. Creative and technical skills in photography for house publications, annual reports, brochures, and news releases. Usually offered every spring. Open only to students currently admitted to the KCBA Public Relations Management program.

16.663 Advanced Public Relations Writing (3) Study and practice in the techniques and skills needed for specialized types of PR persuasive writing used in editorials, promotion, PR advertising, direct mail, employee publications, reports and brochures. Usually offered every spring. *Prerequisite:* 16.650 and 16.658. Open only to students currently admitted to the KCBA Public Relations Management program.

16.664 Speech Writing for Business (3) Study of techniques used in researching, planning, writing, delivering and promoting speeches for a variety of audiences. Students write several speeches for class discussion. Usually offered every summer. *Prerequisite:* 16.650 and 16.658. Open only to students currently admitted to the KCBA Public Relations Management program.

16.690 Independent Study Project in Business Administration (1–6)

16.691 Internship (3–6) A work-study experience normally taken by students who have no previous professional work experience. Design of project and monitoring through completion are details worked out among student, supervising faculty member, and employer. *Prerequisite:* 16.650 and admission to the public relations program. Open only to students currently admitted to the KCBA Public Relations Management program.

16.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

16.740 Public Relations Seminar (3) Formulation of policies for long-range public relations programs. Usually offered every fall. *Prerequisite:* 16.650 and admission to the public relations program. Open only to students currently admitted to the KCBA Public Relations Management program.

16.789 Public Relations Research Methods (3) Fundamentals of research in public relations. Required of all public relations master's degree candidates. Usually offered every term. *Prerequisite:* 16.650 and admission to public relations program. Open only to students currently admitted to the KCBA Public Relations Management program.

Communication

Note: The program track or tracks of each undergraduate professional course are noted in the course descriptions below: (BJ) Broadcast Journalism, (PJ) Print Journalism, (PC) Public Communication, (VM) Visual Media. Communication and Media Studies courses are identified by (MS).

Undergraduate Courses

17.100 Introduction to Mass Media /S (3) (BJ, PJ, PC, VM) A study of mass media; their history, social effects, economic and legal restraints, and current practices, conducted by the faculty and by media professionals. Lectures and field work to acquaint the student with mass-media activities in the Washington area. Required of all school majors. Usually offered every term. *Prerequisite:* permission of the school.

17.199 Washington Journalism Institute for High-School Students (2) A course to familiarize highly qualified high-

school students with the fundamentals of newswriting, types of newspaper stories, newspaper editing, and journalistic ethics. In addition, students are introduced to the workings of the federal government and to university life.

17.200 Writing for Mass Communication (3) (BJ, PJ, PC, VM) A course stressing basic writing techniques for informing a mass audience. Intensive practice in writing for mass media. Required of all school majors. Usually offered every term. *Prerequisite:* 17.100, 23.100, 23.101 or equivalent courses, typing skill, and permission of the school.

17.201 Introduction to Interpersonal Communication (3) (PC) Principles of interpersonal communication: communication models and systems; the role of perception in communication; verbal and nonverbal message elements; and communication barriers, breakdowns, and methods of improvement. Classroom exercises in interviewing techniques, small-group problem solving, and public speaking. Required for all public communication majors. Usually offered every spring. *Prerequisite:* 17.200 and permission of the school.

17.202 Visual Literacy (3) (VM) The course assists students in understanding visual imagery and provides audio-visual screenings so that they may learn to see in a discerning manner. Required for all visual media majors. Usually offered every spring. *Prerequisite:* 17.200 and permission ofthe school.

17.203 American Journalism (3) (BJ, PJ) The course capsulizes the world of journalism by looking at the history of the craft and exploring current issues such as the power of newspapers and television, legal and ethical standards required for reporters, journalism as a social force, and the political impact of radio, television, newspapers, and news magazines. Required for all broadcast and print journalism majors. Usually offered every spring. *Prerequisite:* 17.200 and permission of the school.

17.310 Public Speaking (3) (PC) Principles of effective speaking. Practice in preparing and presenting several types of public address. Usually offered every term. *Prerequisite:* core courses and junior standing.

17.320 Reporting (3) (BJ, PJ) Fundamentals of news gathering, news writing, and news judgment for all media; study of news sources, fieldwork, research, and interview techniques. Usually offered every term. *Prerequisite:* core courses and junior standing.

17.322 Editorial Policies and Methods (3) (PJ) Instruction and practice in editing. Copy editing, wire editing, and editorial judgment, deadline writing, and newspaper design and layout. Usually offered every term. *Prerequisite:* core courses and junior standing.

17.325 Feature Article Writing (3) (PJ) Study of feature articles for newspapers, syndicates, magazines, and specialized publications; practice in research, interviewing, and writing, marketing and publication of articles. *Prerequisite:* 17.320.

17.333 Fundamentals of TV and VTR (3) (BJ) Procedures and techniques used in producing television news in the field and in the studio. Students are introduced to basics of lighting, audio techniques, video graphics, camera operations, field production and videotape editing. Laboratory. *Prerequisite:* core courses, junior standing, and permission of instructor.

17.346 Audio-Visual Communication (3) (PC) Problems of communicating through modern audio-visual media. Emphasis on understanding the media as well as the message. Students prepare materials and gain experience with audio-visual devices and systems. Usually offered every term. *Prerequisite:* junior standing.

17.385 Broadcast Journalism I (3) (BJ) Writing, reporting, and editing news for radio. Broadcast newscasts on WAMU-AM. Production of radio minidocumentary. Laboratory. Usually offered every term. *Prerequisite:* 17.320 and permission of instructor.

17.390 Independent Reading Course in Communication (1–6)

17.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication.

17.401 Legal Aspects of Communication (3) (MS) Current legal problems. Theory of controls in journalism, visual communication, television, and radio. Libel suits, copyrights, and infringement. No previous knowledge of law required. Usually offered every term. *Prerequisite:* junior standing.

17.425 Public Affairs Reporting (3) (PJ) Students are introduced to the various reporting techniques involved in writing about local and federal governmental operations. Students write local and federal government news stories. Usually offered every term. *Prerequisite:* 17.320.

17.428 Broadcast Journalism II (3) (BJ) Writing, reporting, editing, and producing news for television. Production of television field reports and newscasts on closed circuit television. Laboratory. Usually offered every term. *Prerequisite:* 17.333, 17.385, and permission of instructor.

17.430 Photography: The Lens and Image (3) (VM) Introductory technical and aesthetic principles of photography. Basic principles of the camera and black and white laboratory work. Usually offered every term. Meets with 17.630. *Prerequisite:* core courses and junior standing.

17.431 Basic Film and Audio Production (3) (VM) Fundamental technical and aesthetic considerations involved in visual media production. Through projects in audiotape, 35mm slides, and Super 8 film that are critiqued in class, students learn the principles and procedures of sound recording and editing, cinematography, editing visual images, and preproduction planning. Meets with 17.631. Usually offered every term. *Prerequisite:* core courses and junior standing.

17.432 Television News Production (3) (BJ) Advanced television news production. Students write, tape, edit, and produce field reports and a television minidocumentary. Meets with 17.632. Usually offered every term. *Prerequisite:* 17.320, 17.333, 17.385.

17.433 Broadcast Delivery (3) (BJ) Concentrated analysis of and training in the delivery of news on radio and television. All facets of broadcast news styles and performance are examined and developed. Obstacles to effective communication of news by the voice are identified, and remedies are attempted. Meets with 17.633. Usually offered every term. *Prerequisite:* 17.320.

17.434 Location Film and Video Production (3) (VM) Teaches 16mm silent and small-format video location production. Emphasis is on planning, treatment and shot scripting, development of scene and character, location lighting,

refinements of continuity, location sound recording, and visual design. Meets with 17.634. Usually offered every term. *Prerequisite:* 17.430 and 17.431.

17.435 Introduction to Studio Television (3) (VM) A hands-on laboratory course to teach basic studio operation and production skills, including directing, lighting, crewing, engineering, and production planning. Students are required to work on a variety of studio formats. Meets with 17.635. Usually offered every term. *Prerequisite:* 17.430 and 17.431.

17.436 Public Relations (3) (PC) The nature and practice of public relations in organizations. Employee relations, media relations, community relations, and relations with other publics. Usually offered every term. *Prerequisite:* core courses and junior standing.

17.437 Public Relations Media (3) (PC) Principles and practice in the major forms of media used in public relations: news releases, broadcast publicity and public service announcements, planning and publicity for special events, feature stories, house publications, and institutional advertising. Usually offered every term. Recommended in junior year. *Prerequisite:* core courses and junior standing.

17.438 Speech Writing (3) (PC) Principles of speech writing. Practical field experience in preparation of speeches for a Washington-area client. Usually offered every spring. *Prerequisite:* junior standing.

17.446 Public Relations Case Studies (3) (PC) Case studies and typical public relations problems in industry, labor, education, government, social welfare, and trade associations. Planning and preparation of communications materials for various media; application of public relations techniques. Usually offered every term. *Prerequisite:* 17.436.

17.450, 17.451 Washington Journalism Semester Seminar I, II (4), (4) 17.450 and 17.451 are taken together, and explore journalism as it exists and is practiced in Washington, D.C. The seminar studies the people, institutions, and issues of Washington journalism with weekly guest speakers, field trips, readings, review sessions, and lectures. These courses are not available to communication majors. Usually offered every fall and spring. *Prerequisite:* admission to Washington Journalism Semester.

17.452 Washington Journalism Semester Internship (4) Professional communication work in an off-campus organization, providing the student with experience not available in the curriculum. Usually offered every fall and spring. *Prerequisite:* admission to Washington Journalism Semester.

17.456 Film I (3) (VM) Techniques of 16mm sound-film production: lighting, sound recording, cinematography, and post production. Usually offered every term. Meets with 17.656. *Prerequisite:* 17.434, 17.435, 17.482 or permission of instructor.

17.464 Studio Television I (3) (VM) A course for students who wish to develop their skills in studio production. The course focuses on studio formats that employ talent, including spots, information tapes, and short dramatic pieces. Meets with 17.664. Usually offered every term. *Prerequisite:* 17.434, 17.435, and 17.482.

17.482 Writing for Visual Media (3) (VM) Techniques of writing scripts for film and television productions. Students write and criticize assignments. No production is involved in this course. Usually offered every term. Meets with 17.682. *Prerequisite:* core courses and junior standing.

17.486 Video I (3) (VM) An intermediate course in field video production. Topics include script, directing, production skills (camera, light, and sound), post-production, and technical developments. Students work independently and in groups. Meets with 17.686. Usually offered every term. *Prerequisite:* 17.434, 17.435, and 17.482.

17.487 Advanced Production (3) (VM) An advanced course in field production. Students produce and direct projects of professional quality, drawing from the class as production crew. Critiques are structured as seminars. In addition, the course includes critical analysis of relevant films, videotapes, readings, and special events. Meets with 17.687. May be repeated for credit but not within the same term; topic must be different. Usually offered every term. *Prerequisite:* 17.456 or 17.486 and permission of instructor.

17.490 Independent Study Project in Communication (1–6)

17.491 Senior Internship (3) (BJ, PJ, PC, VM) Professional communication work in an off-campus organization appropriate to the student's school program, providing the student with experience not available in the curriculum. Usually offered every term. *Prerequisite:* senior standing, recommendation of adviser, and approval of the internship director; a grade-point average of 2.50 is required in both the major and overall.

Graduate and Advanced Undergraduate Courses

17.502 Investigative Journalism (3) (MS) Introduces students to the history, purposes, power, and responsibilities of investigative journalism. Also introduces students to the specialized reporting and interviewing techniques of investigative reporting and requires students to develop these skills while participating in a group investigative journalism project. Usually offered every spring. *Prerequisite:* 17.320 or enrollment in the M.A. in Journalism and Public Affairs.

17.503 Mass Media and Society /S (3) (MS) The role of newspapers, magazines, radio, television, and motion pictures in society. Usually offered every term. *Prerequisite:* junior standing.

17.508 The Media and Government (3) (MS) The president and the press, other Washington press corps-official relations, the quality of government news reporting and its effect on policy, issues of government information policy, control of the media, and journalists' First Amendment rights. Usually offered every spring. *Prerequisite:* junior standing and permission of instructor.

17.509 Politics and the Media /S (3) (MS) The role of the mass media in the electoral process. Includes examination of candidates' use of the media to get elected and press and television reporting and analysis of political campaigns. Usually offered every term. *Prerequisite:* junior standing.

17.511 History of Documentary Film (3) (MS) Development of the documentary tradition in film from 1900 to 1970. Critical analysis of its use in modern society. Laboratory screening instead of assigned reading, two and a half hours a week. Usually offered alternate falls. *Prerequisite:* junior standing.

17.512 Television Documentary (3) (MS) A study of the intersection of the documentary form in film and television. A brief overview of the history of the documentary film with a concentration on the manner in which it was shaped by the advent of television. A concentrated study of network documentary production in the 1950s and 60s, with an emphasis on the cinéma vérité movement, leading to a study of how film and television were affected by cinéma vérité in the 1970s and 80s. Concluding unit is on the video documentary. Usually offered alternate falls. *Prerequisite:* junior standing.

17.513 Business of Film (3) (MS) Nontheatrical film marketing and production management. Preliminary research and development of the film proposal; preparation of treatments, contracts, and budgets; cost analysis of production; and relationships between aesthetics and expenses. Use of Washington as a laboratory for marketing experience, including actual client contact. Usually offered every spring. *Prerequisite:* junior standing.

17.514 Censorship in Media (3) (MS) A survey of the history of censorship in the U.S. today—in the newspapers, magazines, radio, movies, publishing, and television. International comparisons are drawn, and the problem of censorship in the schools is given special attention. Usually offered every fall. *Prerequisite:* junior standing.

17.515 Seminar for Advisers to Student Newspapers (3) Based on an open exchange of ideas among advisers, guest speakers, and the instructor, the course provides discussion and practice instruction in legal issues, reporting, photography, finances, advertising, and newspaper layout and design. The course provides an overview of journalism that will be helpful in advising a student newspaper. Usually offered every summer. May be repeated for credit but not in the same term; topic may be the same. *Prerequisite:* permission of the school.

17.516 Special Topics in Visual Media and Culture (3) (MS) Rotating topics in the analysis of visual media and culture from a variety of perspectives, such as film and propaganda, film and ideology. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* junior standing.

17.521 Editorial Writing (3) (PJ) Supervised writing of editorials and opinion columns on current subjects; analysis of editorials and other commentary; editorial page policies and practices. Usually offered every spring. *Prerequisite:* junior standing and permission of instructor.

17.523 Intermediate Photography (3) (VM) A refinement of photographic skills emphasizing a synthesis of craft and expression. Photojournalism is usually offered in the fall, Fine Arts Printing in the spring. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* 17.430 or permission of instructor.

17.525 Advanced Photography (3) (VM) Extensive individual projects, critiques, and professional guest speakers. In-depth exploration of specific themes and techniques based on the goals of each student, and leading toward a professional-level portfolio. May be repeated for credit but not in the same term; topic may be the same. Usually offered every spring. *Prerequisite:* 17.523 or permission of instructor.

17.527 Photography: History and Aesthetics (3) (MS) The history of photography and its interrelationships with other visual arts and media. Emphasis is on modern photographers and on viewing work in Washington galleries and museums. Usually offered every fall. *Prerequisite:* junior standing.

17.529 Large-Format Photography and Studio Lighting (3) (VM) A professional skills course which introduces the 4x5 view camera and studio electronic flash. Both sections are integrated and explore the unique characteristics of the equipment through extensive technical and shooting assignments. Usually offered every fall. May be repeated for credit but not within the same term; topic must be different. *Prerequisite:* 17.523 or permission of instructor.

17.530 Broadcast Operations and Management (3) (MS) The technical and historical development of American broadcasting, the managerial problems that affect operations of a broadcasting station, and the functional structure of American broadcasting. Usually offered every fall. *Prerequisite:* junior standing.

17.531 International Communications Systems /S (3) (MS) Communication of news and opinion among nations and under varying social, political, and economic systems. Uses of mass media in national development; patterns of mass communication throughout the world. Usually offered every term. *Prerequisite:* junior standing.

17.532 Publication Layout and Design (3) (PC) Layout, typography, design, and printing in planning and producing newspapers, magazines, books, brochures, and folders. Usually offered every term. *Prerequisite:* junior standing and permission of the school.

17.538 Contemporary Media Issues /S (3) (MS) Examination of investigative reporting, the "new journalism," and other controversial developments affecting the news media. Assessment of how well the press informs the public. Usually offered every fall. *Prerequisite:* junior standing.

17.540 American Newspapers (3) (MS) Survey of contemporary newspapers. Critical analysis of their editorial and advertising content. Alternative newspapers. Usually offered every spring. *Prerequisite:* junior standing.

17.542 American Magazines (3) (MS) Survey of contemporary popular magazines. Critical analysis of their editorial and advertising content. The effect of magazines on American society. Usually offered every fall. *Prerequisite:* junior standing.

17.545 Business and Economic Journalism (3) (MS) Current economic and business issues and their coverage by the news media. The performance of the media in providing the necessary depth of business and economic reporting. How journalists can improve their knowledge and skill. Usually offered every spring. *Prerequisite:* junior standing and permission of instructor.

17.550 Public Relations Programs (3) (PC) Principles of public relations programs. Public relations practices in business and associations, and nonprofit, governmental, educational, and other organizations. Preparation of a public relations program for a Washington-area client. Usually offered every term. *Prerequisite:* core courses, junior standing, 17.436, and 17.437.

17.558 History of Motion Pictures I /S (3) (MS) Origins and development of the theatrical feature-length fiction film from the nineteenth century to 1940. International survey from an American viewpoint. Films screened, discussed, and

criticized. Laboratory screening instead of assigned reading, two and a half hours a week. Usually offered every fall. *Prerequisite:* junior standing.

17.559 History of Motion Pictures II /S (3) (MS) History and development of the theatrical feature-length fiction film from 1940 to the present. International survey from an American point of view. Films are screened, discussed, and criticized. Laboratory screening instead of assigned reading, two and a half hours a week. Usually offered every spring. *Prerequisite:* junior standing.

17.561 Advanced Writing for TV/Film (3) (VM) The course emphasizes entertainment television and theatrical film scripting. Students are expected to write either a feature film script or television pilot script. Students also read and report in class on the works of major screenwriters. Usually offered every term. May be repeated for credit but not within the same term; topic must be different. *Prerequisite:* 17.482/682 or 23.402/602 or permission of instructor.

17.565 Organizational Communication (3) (PC) Communication practices in complex organizations. Formal and informal communication networks and problems associated with each. Forms of communication used in organizations. Field research project in a Washington-area organization. Usually offered every fall. *Prerequisite:* core courses and junior standing.

17.572 Nonverbal Communication (3) (PC) Current research on the influence of biorhythms, artifacts, facial expressions, gestures, posture, space, time, and touch on human interaction. Opportunities for analysis and application of learned principles through in-class exercises, simulations, videotaped sessions, and off-campus field research. Usually offered every fall. *Prerequisite:* junior standing.

17.580 Group Communication Management (3) (PC) Current research on leadership, problem solving, decision making, deviant behavior, communication networks, and discussion techniques in small groups. Opportunities for application in videotaped sessions, role-playing exercises, and field research. Usually offered every term. Recommended in junior year. *Prerequisite:* core courses and junior standing.

17.582 Public Communication Research (3) (PC) Application of survey research methods to selected problems in public relations. Preparation of a research project for a Washington-area client. Usually offered every term. *Prerequisite:* core courses and senior standing.

17.590 Independent Reading Course in Communication (1–6)

17.599 New Communication Technology (3) (MS) The latest developments in, and the social and legal issues of, communication technology, including text-editing computer systems, word processors, cable, satellites, videotext, and teleconferencing. Usually offered every spring. *Prerequisite:* junior standing.

Graduate Courses

Note that in courses for which there are both a .400 and .600 level, additional work is required of students at the .600 level.

17.601 Legal Aspects of Communication (3) Current legal problems. Theory of controls in journalism, visual communication, television, and radio. Libel suits, copyrights, and infringement. No previous knowledge of law required. Usually offered every fall. *Prerequisite:* permission of school.

17.621 Advanced Copy Editing (3) Students edit news and feature stories. Emphasis is on the dynamics of stories and the refinement of stories for publication. Usually offered every fall. *Prerequisite:* admission to the graduate program in print journalism.

17.624 Principles and Practice of Journalism (3) An intensive introduction to news reporting and news writing. Includes extensive field work reporting on local government and federal government. Designed to prepare nonjournalists for the full-time graduate program in journalism and public affairs. Usually offered every summer. *Prerequisite:* permission of instructor and admission to graduate program in journalism and public affairs.

17.630 Photography: The Lens and Image (3) Introductory technical and aesthetic principles of photography. Basic principles of the camera and black and white laboratory work. Meets with 17.430. Usually offered every term. *Prerequisite:* permission of program director.

17.631 Basic Film and Audio Production (3) Fundamental technical and aesthetic considerations involved in visual media production. Through projects in audiotape, 35mm slides, and Super 8 film that are critiqued in class, students learn the principles and procedures of sound recording and editing, cinematography, editing visual images, and preproduction planning. Meets with 17.431. Usually offered every term. *Prerequisite:* permission of the program director.

17.632 Television News Production (3) Instruction in production of television news packages. Merging of script, videotape, and graphics into the final product. Supervision of shooting and editing. Meets with 17.432. Usually offered every term. *Prerequisite:* permission of the graduate program director.

17.633 Broadcast Delivery (3) The effective delivery of news on radio and television. Contemporary voice and delivery styles are examined. Supervision of training sessions. Meets with 17.433. Usually offered every term. *Prerequisite:* permission of the graduate program director.

17.634 Location Film and Video Production (3) Teaches 16mm silent and small-format video location production. Emphasis is on planning, treatment and shot scripting, development of scene and character, location lighting, refinements of continuity, location sound recording, and visual design. Meets with 17.434. Usually offered every term. *Prerequisite:* permission of the program director.

17.635 Introduction to Studio Television (3) A hands-on laboratory course to teach basic studio operation and production skills, including directing, lighting, crewing, engineering, and production planning. Students are required to work on a variety of studio formats. Meets with 17.435. Usually offered every term. *Prerequisite:* permission of the program director.

17.636 Washington Reporting (3) Field reporting of Washington and suburban community affairs. In-depth reporting, feature writing, and editing. Usually offered every spring and summer. *Prerequisite:* permission of faculty adviser and admission to the graduate program in journalism and public affairs.

17.656 Film I (3) Techniques of 16mm sound-film production: lighting, sound recording, cinematography, and post production. Meets with 17.456. *Prerequisite:* 17.634, 17.635, and permission of graduate program director.

17.664 Studio Television I (3) A course for students who wish to develop their skills in studio production. The course focuses on studio formats that employ talent, including spots, information tapes, and short dramatic pieces. Meets with with 17.464. Usually offered every term. *Prerequisite:* 17.634, 17.635, and 17.682.

17.682 Writing for Visual Media (3) Techniques of writing scripts for film and television productions. Students write and criticize assignments. No production is involved in this course. Additional writing required for graduate students on professional contract scripts. Usually offered every fall. Meets with 17.482. *Prerequisite:* permission of graduate program director.

17.686 Video I (3) An intermediate course in field video production. Topics include script, directing, production skills (camera, light, and sound), post-production, and technical developments. Students work independently and in groups. Meets with 17.486. Usually offered every term. *Prerequisite:* 17.634, 17.635, and 17.682.

17.687 Advanced Production (3) An advanced course in field production. Students produce and direct projects of professional quality, drawing from the class as production crew. Critiques are structured as seminars. In addition, the course includes critical analysis of relevant films, videotapes, readings, and special events. Meets with 17.487. May be repeated for credit but not within the same term; topic must be different. Usually offered every term. *Prerequisite:* 17.656 or 17.686 and permission of graduate program director.

17.690 Independent Study Project in Communication (1–6)

17.691 Graduate Internship (3) Professional communication work in an off-campus organization appropriate to the student's school sequence, which provides experience not available in the curriculum. Usually offered every spring and summer. *Prerequisite:* open to graduate students who have completed with distinction most or all of their sequence requirements. Recommendation of adviser and approval of internship director.

17.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

17.701 Graduate Seminar in Film Theory and Criticism (3) The seminar focuses on the development of film theory and criticism. The work of Arnheim, Eisenstein, Kracauer, Bazin, Mitry, and Metz are studied as primary sources. The relationship between theory and production is examined and applied to analysis of specific films. Usually offered every spring. *Prerequisite:* full-time registration in the graduate program in Film and Video.

17.710 Seminar in Public Affairs (3) Current issues in the making of public policy in Washington with emphasis on the role of the media. Includes a major in-depth reporting project. Usually offered every fall. *Prerequisite:* permission of faculty adviser and admission to the graduate program in journalism and public affairs.

17.720 Seminar in Journalism (3) Examines ethical and economic issues affecting the press and initiates studies to add to the literature of media criticism. Students become acquainted with team journalism and magazine writing through in-depth projects focusing on press issues. Usually offered every spring. *Prerequisite:* permission of faculty adviser and admission to graduate program in journalism and public affairs.

17.721 Broadcast News I (3) Problems, policies, and practices of the broadcast news media. Emphasis on radio news writing, production, editing, and individual research. Usually offered every fall. *Prerequisite:* permission of faculty adviser and admission to graduate program in journalism and public affairs.

17.722 Broadcast News II (3) An exploration of broadcast news issues. Training in television news reporting, editing, and production. *Prerequisite:* permission of faculty adviser and admission to the graduate program in journalism and public affairs.

17.724 Reporting of Public Affairs (3) Advanced training in writing news for publication with emphasis on coverage of issues in federal-metropolitan Washington. Conducted with 17.710. Usually offered every fall. *Prerequisite:* permission of faculty adviser and admission to the graduate program in journalism and public affairs.

17.797 Master's Thesis Seminar (1–3) May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

Economics

Undergraduate Courses

19.101 Introduction to Economics I (Macro) /S (3) An introduction to the basic principles of macroeconomics, stressing topics of national income, unemployment, inflation, economic growth, depression, prosperity, international economics, economic development, alternative approaches to economics, and current issues and controversies. Usually offered every term.

19.102 Introduction to Economics II (Micro) /S (3) The basic principles of microeconomics and their applications. Supply and demand, operation of markets, consumer and enterprise behavior, competition and monopoly, income distribution, discrimination, and alternative approaches to economics. Usually offered every term. *Prerequisite:* 19.101.

19.300 Price Theory (3) Theory of relative prices of commodities and productive services under perfect and imperfect competition. Theory of the firm and consumer demand. Usually offered every term. *Prerequisite:* 19.101 and 19.102.

19.301 Income Theory (3) Concepts and theory of national income determination, employment, and economic growth. Usually offered every term. *Prerequisite:* 19.101 and 19.102.

19.302 Comparative Economic Systems /S (3) Analysis of different theoretical models of capitalist and socialist economies to understand the differences in their dynamics and effects on human well-being. Specific case studies of the differences among French, British, German, Swedish, and Japanese capitalism and among Soviet, Yugoslav, Chinese, Cuban, and Vietnamese socialism. Usually offered every term. *Prerequisite:* 19.101 and 19.102.

19.303 Women in the Labor Force (3) Analysis of the causes and effects of women's economic status. For economics students, to look in depth at a particular application of labor economics; for women's studies students and majors in the other social sciences, to bring the discipline of economics to bear on their study of women's place in society. Usually offered every spring. *Prerequisite:* 19.101 and 19.102.

19.304 Labor Economics /S (3) The application of economic theory to current labor problems, domestic and foreign. Problems include wage theory and wage differentials, training policy, poverty, unemployment and underemployment, discrimination, productivity, industrialization, and union policies. Usually offered every term. *Prerequisite:* 19.101, 19.102, and 19.300.

19.305 Quantitative Economics (3) Graphs, applications of calculus to economic problems and of linear algebra to input-output models, and introductory concepts of dynamic economic models. Usually offered every term. *Prerequisite:* 19.102, and 41.211 or 41.221.

19.306 Money and Banking (3) The role of money and credit in the economy. The structure and operations of commercial banks. Federal Reserve System and processes and instruments of monetary policy. Nonbanking financial institutions and the structure of financial markets. Elements of monetary theory. "Flow of funds" and its use in monetary analysis. Usually offered every term. *Prerequisite:* 19.101.

19.307 Political Economy of Economic Development /S (3) Resource constraints on world growth. The colonial legacy. Market and nonmarket growth models. New strategies of development. Development problems and country emphasis vary with the semester. Usually offered every term. *Prerequisite:* 19.101.

19.308 History of Economic Development /S (3) Historical investigation of economic development using Europe and the Third World as case studies. Emphasis is on economic theory to illuminate historical development. Usually offered every fall. *Prerequisite:* 19.102.

19.309 Public Economics /S (3) The theory of taxation, public expenditure, and fiscal policy. Comparison of fiscal institutions in the United States and abroad. Government approaches to income redistribution and poverty: negative income tax, family allowances, etc. Usually offered every term. *Prerequisite:* 19.101 and 19.102.

19.310 Introduction to Econometrics (3) Review of the theory of economic statistics and statistical techniques. Emphasis on applying statistical models to economic data. Regression analysis and estimation of economic models. Topics include violations of the basic assumptions of the regression model, dummy variables, and analysis of variance. Index numbers and time series analysis. *Prerequisite:* 19.101, 19.102, and 42.202.

19.311 International Economics /S (3) Introduction to the economics of international trade and finance. Topics include why countries trade; commercial trade policies and their effects; balance of payments and the economics of foreign exchange markets; the operation and effects of fixed and flexible exchange rates. *Prerequisite:* 19.101 and 19.102.

19.312 Industrial Organization (3) Historical and contemporary analysis of industrial market structures and of the behavior of business firms in the United States. Topics include the rise of large corporations, monopoly power and its effects on economic and social welfare, control over large corporations, and governmental regulation of business. Usually offered every term. *Prerequisite:* 19.101 and 19.102.

19.315 Urban Political Economy /S (3) Economic functions of cities, pollution, metropolitan decentralization, urban growth and development, transportation, urban form and structure, housing markets and discrimination, land-use patterns, urban renewal, local government finance, and poverty. Usually offered every term. *Prerequisite:* 19.101 and 19.102.

19.317 Political Economy /S (3) Analysis of political economic theories including Veblen, institutionalists, neo-Ricardians, and modern Marxist and American radical dissenters from orthodox neoclassical economic theory, and application of those theories to problems, emphasizing the interdependence of political, economic, and social forces in contemporary societies. Usually offered every term. *Prerequisite:* 19.101.

19.319 The Economic Development of the U.S. (3) The nature and sources of economic growth, the institutional transformation associated with economic development, and the social and economic consequences of economic change in the U.S. from the colonial times to the present. Usually offered every spring. *Prerequisite:* 19.101 and 19.102.

19.320 History of Economic Ideas (3) Exposition and analysis of development of economic theory. Emphasis on tracing evolution of economic theories out of specific historical contexts. Major figures and schools in economic thought from Adam Smith to the present. Attention given to the significance of having a separate body of thought called economics. *Prerequisite:* 19.101.

19.321 Industrialization, Work, and Workers in the United States /S (3) The development of modern methods of organizing work as the American economy industrialized, the organized and unorganized reactions of workers to industrialization, and the response of employers and government to workers' protests. *Prerequisite:* 19.101.

19.322 Marxist Economics (3) Marxist methodology. The labor theory of value, accumulation, and crises. Usually offered every term. *Prerequisite:* 19.101 and 19.102.

19.371 International Economics: Trade (3) Theories of international trade and competitiveness; the effects of trade on the economies of importing and exporting countries; analysis of the effects of tariffs and quotas and other nontariff barriers. Other topics include multinational corporations; trade and development; customs, unions, and theory of the second best. Usually offered every fall. *Prerequisite:* 19.300.

19.372 International Economics: Finance (3) Determination of income, employment, and inflation in open economies. International impact of monetary-fiscal policies under fixed and flexible exchange rates. Theories of exchange-rate determination. International debt and recycling problems. International monetary organization and reform. Usually offered every spring. *Prerequisite:* 19.301.

19.379 Economics of Energy, Resources, and Environment (3) An introduction to the methods of establishing and evaluating current environmental policy, stressing the tradeoff between resource extraction and development on the one hand and environmental quality on the other. Public policy is analyzed within the confines of economic growth, energy de-

velopment, and environmental amenities. Designed for both majors and nonmajors. Usually offered every fall. *Prerequisite:* 19.300.

19.390 Independent Reading Course in Economics (1–6)

19.391 Washington Economic Policy Semester Internship (4) Experience in pursuing directed research with an organization directly involved in the field of economic policy. Students must also be enrolled in 19.393 and 19.394. Usually offered every term.

19.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication.

19.393, 19.394 Washington Economic Policy Semester Seminar I, II (4), (4) 19.393 and 19.394 are taken together, and involve intensive examination of economic policy making in Washington. Encompasses theoretical analysis of economic problems, extensive readings, on-site discussions with economic policy decision makers, preparation of papers, and presentation of alternative paradigms used to understand economic policy. Usually offered every term.

19.398 Department Honors, Junior Year I (1–6)

19.399 Department Honors, Junior Year II (1–6)

19.490 Independent Study Project in Economics (1–6)

19.491 Internship (1–6) Usually offered every term.

19.498 Economics Honors I (3) See department undergraduate adviser. Usually offered every term.

19.499 Economics Honors II (3) See department undergraduate adviser. Usually offered every term.

Graduate and Advanced Undergraduate Courses

19.500 Price Theory (3) Theory of resource allocation and price system. Theory of demand, production, and distribution. Market structure and performance. Master's section usually offered every term. Ph.D. section usually offered in the fall. Screening exam. *Prerequisite:* 19.300 or permission of department.

19.501 Income Theory (3) Keynesian model of income determination. Consumption, investment, and interest rate theories. Keynesian and classical systems compared. Usually offered every term. *Prerequisite:* 19.301 or permission of department.

19.502 Theory of Political Economy I (3) An analysis of the methodology of political economy. Value theory, the labor process, alienation, accumulation, and reproduction. Usually offered every fall. *Prerequisite:* either 19.603 or 19.300 and 19.301.

19.503 Theory of Political Economy II (3) An analysis of advanced topics in value theory, crises and depressions, the theory of money, international capital flows, and distribution. Usually offered every spring. *Prerequisite:* 19.502 or permission of instructor.

19.504 Economic Thought (3) Major figures in the history of economic thought—their social and economic thought and tools of analysis they created. Usually offered every fall. *Prerequisite:* 19.300 and 19.301.

19.507 American Economic Development (3) The pace and structure of economic growth, the institutional transformations involved in economic development, and the social and economic consequences of economic change in the United States since 1600. Focus is on a variety of causal models and methods for explaining economic and institutional change. *Prerequisite:* 19.101 and 19.102.

19.508 European Economic Development (3) Origins and development of capitalism in the Western world, especially in Britain. Emphasis on economic theory to illuminate historical development. Usually offered every fall. *Prerequisite:* permission of department.

19.510 Cost-Benefit Analysis (3) Theoretical and methodological alternatives in identifying the economic and noneconomic costs and benefits of development projects. Methods and techniques used to carry out alternative cost-benefit estimates on development projects. Problems of under-and over-specification; problems and uncertainties in assessing nonquantifiable effects. *Prerequisite:* 19.500 and 19.501.

19.512 Comparative Economic Systems (3) Three worlds of development—advanced market, advanced nonmarket, and developing areas. Meaning of economic systems and approaches to their study. Organized primarily around policy makers and their decisions, rather than around ideology or ownership, with emphasis on national goals and policy measures designed to achieve them. Usually offered every fall. *Prerequisite:* 19.101 and 19.102.

19.521 Mathematical Economic Analysis (3) Mathematical analysis of economic theory and problems. Constrained maxima and minima, linear and nonlinear programming, elementary differential and difference equations, and economic applications. Usually offered every term. *Prerequisite:* 41.221 and 41.222 or equivalent.

19.522 Econometrics (3) Theory of economic statistics and development of statistical models to be applied to economic data. Statistical criteria, hypothesis testing, multiple regression analysis, violations of the basic assumptions of regression analysis, and analysis of variance. Computer applications. *Prerequisite:* three hours of undergraduate statistics and 41.211 or equivalent.

19.525 Political Economy of International Finance (3) Balance of payments accounts and modern theories concerning interrelations of price level, balance of payments, and capital movements. Foreign exchange markets, foreign investments, and capital movements. International financial organizations. International monetary system and its reform; neo-imperialism. Usually offered every spring. *Prerequisite:* 19.603 or 19.501.

19.531 Financial Markets (3) Institutional and theoretical aspects of creating, holding, and exchanging financial assets—money, credit instruments, and equities. The liabilities created by financial intermediaries and the role of government in financial markets. Usually offered every fall. *Prerequisite:* 19.300, 19.301, and 19.306.

19.532 Monetary Theory and Policy (3) Relation of money and other financial assets to prices, output, and interest rates. Emphasis on the demand and supply of money and on government monetary policy. Usually offered every spring. *Prerequisite:* 19.300, 19.301, and 19.306.

19.533 Development Banking (3) Public, private, and mixed development banks and their advantages and disadvantages.

Relations of development banks to money and capital markets—competitiveness and compatibility with other financial institutions; sources of funds; use of funds; autonomous and syndicated operations; fund management and project supervision; loan repayment; and successive financing and development banking as instruments of promoting development. *Prerequisite:* 19.500 and 19.501.

19.541 Public Economics I (3) Rationale for the existence of the public sector. Theory of public goods and taxation. Usually offered every fall. *Prerequisite:* 19.500 and 19.501, or permission of instructor.

19.542 Public Economics II (3) Analysis of public expenditure, cost-benefit analysis, budgeting, and fiscal policy. Usually offered every spring. *Prerequisite:* 19.541 or permission of department.

19.546 Industrial Organization (3) The structure of industrial markets and the behavior of business firms in the United States. Evaluation of welfare implications of current market structures, business behavior, and related government policies. Usually offered every fall. *Prerequisite:* 19.300 or permission of instructor.

19.548 Economic Indicators (3) How the economy is measured, including GNP, inflation, unemployment, poverty, money supply, international trade, and balance of payments. An analysis of the methods and uses of economic statistics and how the way in which the economy is measured affects economic-policy debates. Usually offered every spring. *Prerequisite:* 19.101 and 19.102.

19.550 International Economic Theory (3) Classical, neoclassical, and modern trade theory. Development of the theoretical principles and analytical tools of trade, tariffs, and nontariff barriers. Focus on comparative advantage, welfare effects of trade and protection, theory of the second best and market distortions, trade and growth, and the analysis of modern trade issues and trade policies. Usually offered every fall. *Prerequisite:* 19.500 or 19.603.

19.551 Theory of International Trade and Multinational Corporations (3) Theory of international specialization, world trade and development, commercial policy, balance of payments, and multinational corporations. Usually offered every fall. *Prerequisite:* 19.603 or 19.500.

19.552 Structure and Operation of the Soviet Economy (3) Rate of growth and changing structure of the economy with emphasis on the period since 1928. Conditioning factors. Planning techniques and procedures. International economic relations. Usually offered every spring. *Prerequisite:* 19.101 and 19.102.

19.555 Political Economy of Latin American Development: Theories versus Realities (3) Review of development theory. Structural problems and economic, social, and political institutions. External dependency and internal instability. Trade, foreign investment, aid, unemployment, population, and technology. Role of integration. Current fiscal and monetary policies. *Prerequisite:* 19.307 and 19.301 or 19.300 or permission of department.

19.557 Economics of Central America (3) Analysis of recent economic development in Central America with an emphasis on the last twenty years. Major topics: industrial development, international trade, and the causes of current economic crises. Emphasis on evolution and collapse of Central American Common Market and prospects for regional economic integration. Usually offered every fall. *Prerequisite:* 19.101 and 19.102, or equivalent.

19.560 Survey of Economic Development (3) Alternative theories of economic development: classical, neoclassical, Marxist, dependency, neo-Marxist, and growth and equity approaches. Case studies of capitalist and socialist development. Usually offered every term. *Prerequisite:* 19.300 or 19.603.

19.561 Development Planning (3) Examination of macro and micro elements of planning: top-down and bottom-up planning experience and sectoral planning in health, education, and agriculture. Project design, implementation, and evaluation. Usually offered every term. *Prerequisite:* 19.560.

19.562 Urban Economic Development (3) A comparative economic analysis of urbanization in industrialized and newly developing countries. Topics include urban origin and growth, urban form, and urban transportation. The course integrates theory with current policy debates. Usually offered alternate falls. *Prerequisite:* 19.300 and 19.301 or 19.603.

19.563 Economic Development: Theory and Applications (3) Neoclassical growth theory: Swann-Solow, Harrod-Domar, Lewis-Fei-Ranis. Analysis of issues such as inflation, technological transfer and choice, urban migration, population, employment, energy, agriculture, monetary and fiscal policy, international trade and investment. Usually offered every spring. *Prerequisite:* 19.560, 19.500, and 19.501.

19.571 Labor Economics: Theory (3) Contemporary theories of wages, employment, and prices; collective bargaining; the effect of collective bargaining on wages in the American economy; theories and empirical studies of wage differentials. Usually offered every fall. *Prerequisite:* 19.300 and 19.301.

19.579 Energy Economics, Resources, and the Environment (3) A systematic introduction to the policy issues associated with the changing role of energy and other resources in modern economics. Specifically, a microanalytic approach is used to evaluate complex policy problems associated with economic growth, energy development, and environmental externalities. For master's students and advanced undergraduate economics majors. Usually offered every fall. *Prerequisite:* 19.500 or 19.603.

19.590 Independent Reading Course in Economics (1–6)

Graduate Courses

19.603 Introduction to Economic Theory (3) The major analytical tools of price and income theory. No credit toward degrees in the Department of Economics. Usually offered every term. *Prerequisite:* 19.101.

19.633 Development-Project Cycle (3) Examines the development project from inception to ex-post evaluation, focusing on specific cases. Required of all students in the Development Lending track of the M.A. in Development Banking. Usually offered every spring. *Prerequisite:* 19.510, 19.533, and 19.560.

19.634 Negotiating Development Loan Contracts (3) Workshop in development-projects contract negotiation for

nonlawyers. Designed around specific projects. Required as terminal course for completion of work in Developmet Lending track of M.A. in Development Banking. Usually offered every spring. *Prerequisite:* 19.533 and 19.561.

19.635 International Capital Markets Workshop (3) Case study in design of prospectus for a public bond issue or private placement in international capital market or both, with special emphasis on a full-scale exercise in steps leading from analysis of credit worthiness to completion and marketing of a bond issue. Usually offered every spring. *Prerequisite:* 19.533 and 19.561.

19.690 Independent Study Project in Economics (1–6)

19.691 Internship (1–6)

19.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

19.702 Macroeconomic Analysis I (3) Analysis of determinants of aggregate demand and supply and their interactions in closed and open economies. Theoretical and empirical analysis of sectoral relations including consumption, investment, government, foreign sector, and demand and supply for money. Usually offered every spring. *Prerequisite:* 41.211 or equivalent.

19.703 Microeconomic Analysis (3) Theories of demand, market structure and performance, production and distribution, and supply. Introduction to general equilibrium analysis. Usually offered every fall. *Prerequisite:* 41.211 or equivalent.

19.704 Seminar in Economic Thought (3) Special topics in the history of economic thought with emphasis on problems of methodology and philosophy. Usually offered every spring. *Prerequisite:* 19.504.

19.705 Seminar in Political Economy (3) Advanced analysis of selected topics in political economy. For doctoral students. Usually offered every spring. *Prerequisite:* 19.502 and 19.503 or permission of the department.

19.709 Seminar in Economic History (3) Selected topics and research in economic history, American and European. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* 19.507 or 19.508.

19.712 Macroeconomic Analysis II (3) Recent developments in macrotheory (monetarist to new classical school) and macrodynamics, including theory of growth and fluctuation and theory of income distribution. Usually offered every spring.

19.713 Advanced Price Theory (3) An advanced treatment of general equilibrium; capital theory; income distribution theory; welfare and public policy. Usually offered every spring. *Prerequisite:* 19.500 or 19.703.

19.721 Advanced Mathematical Economic Analysis (3) Systems of difference and differential equations, dynamic optimization techniques such as calculus of variations and optimal control theory, and economic applications. *Prerequisite:* 19.521.

19.722 Statistical Foundations of Econometrics (3) Probability topics in distribution theory. Methods of estimation and hypothesis testing. Selected topics in linear algebra. Usually offered every fall. *Prerequisite:* undergraduate statistics, 41.211 or knowledge of integral calculus, and 19.521.

19.723 Econometric Methods (3) The two-variable/multivariate regression models and the variations on the standard model, including serial correlation, heteroskedasticity, multicollinearity, stochastic regressors, dummy variables, etc. Simultaneous equation models: estimation and identification. Special topics as time permits. Usually offered every spring. *Prerequisite:* 19.722 or equivalent.

19.770 Seminar in Economic Theory: Price (3) General equilibrium, integration of monetary and value theory, comparative statistics methodology, capital theory, interest, and economic growth. *Prerequisite:* 19.500 or 19.703.

19.771 Seminar in Economic Theory: Income (3) Advanced analysis of problems in income determination and economic growth. Discussion and supervised research. *Prerequisite:* 19.501 or 19.702.

19.779 Seminar in Energy, Resources, and the Environment (3) Advanced analysis of economic theory and practical applications in natural resources development, designed to provide an understanding of the problems associated with energy and resource development and their effects on the environment and to prepare students for independent research in the field of resource economics. For doctoral students. Usually offered every spring. *Prerequisite:* 19.579, 19.521, and permission of the instructor.

19.784 Seminar in International Trade and Finance (3) Beginning with international economic problems of low-income countries, the course deals with problems of the international economy, including trade problems and policies, foreign aid, foreign investment, economic integration, U.S. balance of payments, and the international monetary system. *Prerequisite:* 19.550 or 19.551.

19.787 Seminar in Public Economics (3) The role of taxation and government expenditure, optimal tax structure, optimal public expenditure, and the role of fiscal policy in stabilization and growth. *Prerequisite:* 19.541, 19.542, or permission of department.

19.788 Seminar in Economic Development (3) Research seminar involving a treatment in depth of selected topics. Research paper required. *Prerequisite:* 19.560.

19.789 Seminar in Urban Economic Development (3) Advanced topics in the economic analysis of urbanization in industrialized and newly developing countries. Urban housing, public finance. Discussion and supervised research. Usually offered alternate springs. *Prerequisite:* 19.562.

19.790 Seminar in Labor Economics (3) Public policy toward labor unions; the economics of human capital; measurement and analysis of income distribution; poverty measurement and analysis; unemployment and manpower policy; selected topics in labor policy. Usually offered alternate springs. *Prerequisite:* 19.500 and 19.501.

19.797 Independent Research: Master's Thesis Seminar (1–6) Usually offered every term.

19.799 Independent Research: Doctoral Dissertation Seminar (1–24) Usually offered every term.

Education

Undergraduate Courses

21.212 Methodology of Sign Language /A (3) The principles of manual communication and some principles of American Sign Language (ASL) are introduced. Learning signs and gaining expressive and receptive skills are stressed.

21.250 Mathematics for Elementary School Teachers (3) Basic mathematical concepts are considered, providing an understanding of the structure of elementary school mathematics. Tutorial experiences encouraged. Usually offered every term. *Prerequisite:* second-semester freshman standing.

21.300 Foundations of Education /S (3) Contemporary American education, with focus on racism, sexism, finance, governance, innovations, and the social context of American education. Lecture, discussion group, and one half-day per week field experience in schools. Usually offered every term.

21.315 Educational Issues and Approaches in Gifted Education (3) Historical development, definitions, incidence levels, identification procedures, characteristics (intellectual, creative, social, emotional, psychomotor), programs, interviews with gifted children and their parents, minority gifted, special problems, teachers, trends, and future perspectives. Usually offered every fall. Meets with 21.615.

21.319 Children's Literature: Multicultural and International Approaches /A (3) Analysis of various genres of children's literature and of the way contemporary issues are reflected in children's books from preschool through adolescence. Topics include the portrayal of minority groups, women, the elderly, those from different cultures, changing family life styles, death and dying, and the international concerns of war and peace. Usually offered every spring. Meets with 21.619.

21.320 Psychology of Education /S (3) Psychological problems in learning. Nature and control of learning; theories of motivation; development of skills and knowledge; pupil evaluation of tests and management; creative learning and critical thinking. Lecture, small group discussion, and one half-day of field experience in schools per week. Usually offered every term.

21.325 Global and Multicultural Education (3) /S This course deals with the role of American education in an interdependent world, examining both the multicultural character of American classrooms and the international dimensions of the American school curriculum. It explores such issues as ethnocentrism, empathy, and global awareness, including an analysis of educational materials and methods useful in treating these issues. A special emphasis is placed on developing skills for cross-cultural understanding and communication. Meets with 21.625. Usually offered every spring.

21.330 Speech and Generic Teaching Methods (3) Introduction to research on equity and effectiveness in teaching. Emphasis on development of instructional objectives and speech and presentation skills. Other teaching skills include questioning, classroom management, evaluation, and academic learning time. Students demonstrate teaching skills in clinical settings. Usually offered every fall. *Prerequisite:* 21.300 and 21.320.

21.339 Methods and Materials for Teaching Art in Elementary and Secondary Schools (3) Utilizing sound learning theory and practical resource materials, each student analyzes, evaluates, plans, and implements a wide range of projects concerned with the teaching of art in schools. Usually offered every spring. *Prerequisite:* 21.300, 21.320, and admission to teacher education program.

21.340 Methods and Materials in Secondary Education: General and Special: English, Social Studies, Mathematics, and Foreign Languages (3) General methods, materials, and applications to special school subjects. Laboratory experiences in the university classroom and in area secondary schools. Students provide their own transportation. Usually offered every spring. *Prerequisite:* 21.300, 21.320 or approved equivalent, overall grade-point average of 2.70 (3.00 in the major), and admission to teacher education program.

21.350 The Teaching of Mathematics in Early Childhood and Elementary Education (2) Materials and methods for teaching early childhood and elementary school mathematics. Laboratory experiences in university classroom, in area elementary school, and use of other educational resources. Students provide their own transportation. Usually offered every fall *Prerequisite:* 21.300 and 21.320, or approved equivalent; admission to the teacher education program; minimum grade-point average of 2.70; must be taken concurrently with 21.351, 21.352, and 21.353.

21.351 The Teaching of Language Arts in Early Childhood and Elementary Education (2) Strategies for teaching language arts in early childhood and elementary school. Emphasis is on teaching reading, speaking, and writing skills to preschool and elementary school students. There is practical application in microteaching settings and in local elementary schools. Usually offered every fall. *Prerequisite:* 21.300 and 21.320, or approved equivalent; admission to the teacher education program; minimum grade-point average of 2.70; must be taken concurrently with 21.350, 21.352, and 21.353.

21.352 The Teaching of Social Studies in Early Childhood and Elementary Education (2) Lecture, discussion, and practical application of materials and skills for social studies education of children, preschool through grade six. Field work and practice teaching in local schools. Students provide their own transportation. Usually offered every fall. *Prerequisite:* 21.300 and 21.320, or approved equivalent; admission to the teacher education program; minimum grade-point average of 2.70; must be taken concurrently with 21.350, 21.351, and 21.353.

21.353 The Teaching of Reading in Early Childhood and Elementary Education (3) Students, through participation in the university classroom and subsequent application of knowledge in the field, learn the major reading approaches and accompanying materials currently used in early childhood and elementary schools. Usually offered every fall. *Prerequisite:* 21.300 and 21.320, or approved equivalent; admission to the teacher education program; minimum grade-point average of 2.70; must be taken concurrently with 21.351 and 21.352.

21.371 Theories of Reading: Diagnosis and Remediation (3) How to teach reading to children. How to evaluate children's unique strengths and weaknesses and take advantage of this information in planning reading programs for children. Usually offered every spring. *Prerequisite:* 21.300 and 21.320.

21.372 Methods and Practicum in Early Childhood Development (2) An overview of the preschool years. Material focuses on stages of development and on methods of teaching

young children and developing curriculum. Practicum in the child development center, interviews, and oral presentations complement readings and class discussion. Usually offered every spring.

21.389 Sexism in School and Society: National and International Perspectives /S (3) Topics include textbooks, school counseling, sex-segregated schools, school personnel behavior, vocational education, physical education and athletics, and international developments concerning sex equity. Examination of recent attempts to develop sex-fair textbooks, legal actions such as Title IX of the 1972 Education amendments, and case studies. Meets with 21.689. Usually offered every spring.

21.390 Independent Reading Course in Education (1–6)

21.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education Field Experience. *Prerequisite:* completion of thirty semester hours of course work and permission of director.

21.402 Methods of Teaching Children with Learning Disabilities (3) An introduction to special education with emphasis on learning disabilities. Attention to perceptual and cognitive development of children and adolescents and their academic and behavioral problems. Emphasis on teaching through children's strengths and interests, remedial approaches for their weaknesses, and special techniques of management. Usually offered every spring.

21.446 Student Teaching (8–15) Various sections provide student teaching opportunities in elementary, secondary, and special education classrooms as appropriate to student interest and professional preparation. Student teaching includes observation, teaching, seminars, and conferences with cooperating teachers and university supervisors. Students provide their own transportation. Applications for student teaching must be submitted by October 1 or March 1 for the following semester. *Prerequisites:* **Early Childhood and Elementary Classroom:** admission to teacher education program and student teaching, successful completion of 21.350 through 21.353, and a positive evaluation from faculty supervisors. **Special Education Classroom:** permission of the director of the teacher education program and the dean of the school. **Secondary Schools:** 21.300, 21.320, 21.340 or equivalent (exception: foreign-language students may take 21.340 concurrently with twelve weeks of student teaching), and admission to the teacher education program and student teaching. **Elementary and Secondary Schools: Music** (for students desiring certification for kindergarten through twelfth grade, student teaching is split between elementary and secondary placements): admission to the teacher education program and student teaching, and successful completion of appropriate methods courses.

21.490 Independent Study Project in Education (1–6)

21.491 Internship in Education (6–9) Students participate in the professional activities of selected educational organizations or agencies in the Washington area. Students gain experience in nonteaching occupations that are integrally related to education and gain skills in educational research and curriculum or program development and dissemination. Usually offered every term. *Prerequisite:* permission of the director of the internship program.

Graduate and Advanced Undergraduate Courses

21.501 Language Arts and Social Studies Curricula in Special Education (3) The relation between teachers and their curricula and learners and their needs. First semester concentrates on language arts and social studies including teaching of reading as a crucial educational responsibility, reading in relation to principles of learning and child development, materials and techniques for specific learning outcomes, the role of language in the child's life, and interrelationships among various phases of language arts. Practicum experience includes teaching under videotape supervision.

21.502 Methods of Managing Pupils with Behavior Disorders (3) Psychoeducational methods of understanding and managing inappropriate classroom behavior. Techniques such as groups, problem solving, role playing, and videotape analysis of behavior. Usually offered every fall.

21.503 Theories and Practices in Special Education (3) Theories and methods of reeducating emotionally disturbed children, such as psychodynamic, behavioral, psychoeducational, educational, and ecological models. Case conferences, guest lectures, group discussions, and videotape analysis.

21.504 Methods of Psychoeducational Assessment (2–3) Understanding the meaning of a child's behavior. Issues and concepts in measuring behavior, interpreting data, psychoeducational programming, and follow-up evaluation. Practicum experiences include observation and participation in classroom activities, group and individual testing, and psychoeducational case conferences. Usually offered every spring.

21.508 Theories and Methods of Urban Education Curriculum (3) Procedures, dynamics, and content of inner-city education and the way in which this system affects exceptional children who have emotional disturbances. This curriculum is employed through theory and application of methods in practicum experience.

21.509 Methods of Psychoeducational Remediation in Special Education (3) Remedial principles of teaching children with learning problems. Basic phonetic approaches, construction and administration of informal reading and developmental skills inventories, and teaching programs for skill development. Practicum experience includes individual and group observation and teaching, lesson planning, supervisory conferences, developing teaching resource file, and, during the second semester, tutoring three times a week.

21.519 Computers in Education (3) An introduction to computer literacy, with emphasis on the role of the computer in the elementary school. Students learn methods and criteria for the evaluation of educational software, programming in BASIC and LOGO, as well as skills in teaching effectively with computers. Additional topics include the history of computers, educational applications of computers, and the impact of computers on education. Usually offered every fall.

21.525 Introduction to Statistics, Tests, and Measurement (3) Introduction to descriptive and inferential statistics and to tests and measurement. Topics include: measures of centrality, dispersion, and association; statistical distributions; tests of hypotheses; problems of measurement; achievement, aptitude, and behavior tests; and student evaluation.

21.541 Foundations of Special Education for Exceptional Children (3) Characteristics of exceptional children and of problems in providing educational programs to meet their needs. Usually offered every spring.

21.542 Special Education for Retarded Children (3) The history, etiology, and social and learning characteristics of

retarded children. Assessment, identification, and program development. Usually offered every spring.

21.545 Overview of All Exceptionalities: The Arts in Special Education /A (3) An experiential course treating a variety of handicapping conditions and introducing a panoply of art forms. Students learn to program for success in each art form by building on the abilities, strengths, and interests of each disabled person, systematically programming academic material into arts activities, and teaching socialization and life skills. Usually offered every fall.

21.551 Counseling Skills in Training and Development (3) The development of basic counseling and interviewing skills needed to assist in individual development through the life span, with an emphasis on adult social, personal, and career development. Usually offered every fall.

21.558 Psychodynamics of Family Life (3) The normal developmental stages of families and the variety of maladaptive responses to family crises.

21.561 Introduction to Student Development in Higher Education (3) Philosophical, psychological, and sociological bases for student personnel administration. Emphasis on admission, orientation, counseling, judiciary functions, student activities, financial aid, housing, health services, and career counseling and placement in student personnel services.

21.566 Seminar: Cultural Factors in Higher Education (3) Study of college students and their culture. Emphasis on assessment and evaluation of phenomena in the collegiate setting to gain insight into cultural dynamics that bear on student development.

21.580 The Teaching of Science in Early Childhood and Elementary Education (3) Methods, materials, and curricula used in elementary school science; basic laboratory skills, safety and legal aspects. Field trips and field experiences. Usually offered every fall.

21.583 Curriculum Construction and Program Design (3) A review of the history of curriculum development, an analysis of current curricular issues, development of a comprehensive curriculum design based on a goal-focused model. An emphasis on the psychological and educational bases of curriculum construction for a variety of educational settings. Usually offered every fall.

21.587 Analysis of Instruction and Training (3) For administrators, supervisors, trainers, and teachers. Research on instructional effectiveness and analysis of teaching and training styles. Students are encouraged to broaden their repertoire of teaching and training skills.

21.590 Independent Reading Course in Education (1–6)

Graduate Courses

21.605 Methods of Psychoeducational Assessment for Learning Disabilities and Emotional Disturbance (3) Critical issues and concepts in the measurement of behavior, data interpretation, and follow-up evaluation for learning-disabled and emotionally disturbed children and adolescents. Usually offered every spring. *Prerequisite:* 21.645 and 21.525 or permission of instructor.

21.606 Theories and Methods in Diagnostic and Remedial Mathematics (3) Readings, demonstrations, educational games, and laboratory exercises. The material is implemented in trainees' classroom. Usually offered every spring.

21.607 Research Seminar in Special Education (3) A review of basic research designs used in special education, with emphasis on developing an interdisciplinary research case study. Usually offered every fall. *Prerequisite:* permission of instructor.

21.615 Educational Issues and Approaches in Gifted Education (3) Historical development, definitions, incidence levels, identification procedures, characteristics (intellectual, creative, social, emotional, psychomotor), programs, interviews with gifted children and their parents, minority gifted, special problems, teachers, trends, and future perspectives. Usually offered every fall. Meets with 21.315.

21.619 Children's Literature: Multicultural and International Approaches (3) Analysis of various genres of children's literature and of the way contemporary issues are reflected in children's books from preschool through adolescence. Topics include the portrayal of minority groups, women, the elderly, those from different cultures, changing family life styles, death and dying, and the international concerns of war and peace. Usually offered every spring. Meets with 21.319.

21.620 Advanced Psychology of Education (3) Psychological principles and research having special relevance to education, including a consideration of motivation, attitudes, mental abilities, and the psychology of school subjects.

21.625 Global and Multicultural Education (3) This course deals with the role of American education in an interdependent world, examining both the multicultural character of American classrooms and the international dimensions of the American school curriculum. It explores such issues as ethnocentrism, empathy, and global awareness, including an analysis of educational materials and methods useful in treating these issues. A special emphasis is placed on developing skills for cross-cultural understanding and communication. Meets with 21.325. Usually offered every spring.

21.631 Introduction to Administration in Education, Training, and Development (3) Introduction to the development, administration, and improvement of institutions, organizations, agencies, and enterprises, including schools, through education, training, and development services. Usually offered every fall.

21.632 Problems in Organizational Management for Education, Training, and Development (3) A case-study approach to the study of internal problems. Problem-solving models employed in simulated and real situations in education and other training settings.

21.633 Business and Fiscal Administration for Education, Training, and Development (3) Principles and practices of financing public education programs at federal, state, and local levels. Taxes, bonds, budgets, purchasing systems, accounting systems, and other aspects of school business administration are covered. Usually offered every fall. *Prerequisite:* 21.531.

21.635 Administrative and Organizational Theory in Education, Training, and Development (3) Review of historical and contemporary developments in administrative and organizational theory and research. A thorough multidisciplinary exploration of literature in leadership and organiza-

tional behavior and effectiveness in education, training, and development.

21.639 Administrative Effectiveness Workshop (3) A theory-based, skills-oriented workshop for administrators, dealing with concepts of administrative effectiveness, administrative style awareness, style flexibility, situational diagnosis skills, and team skills. Usually offered every spring.

21.644 Language Development and Remediation (3) How does one learn to use language to express thoughts and feelings? How does one teach a learning-disabled child to communicate effectively? This course discusses the developmental sequence of language learning, the nature of language disorders, diagnostic assessment of language disorders, and remedial techniques. Usually offered every fall.

21.645 Learning Disabilities I (3) Examines neurological and developmental aspects of learning disabilities. *Prerequisite:* permission of instructor.

21.646 Learning Disabilities II (3) Develops diagnostic capabilities in order to select and design materials and programs for learning-disabled children and youth. *Prerequisite:* 21.645.

21.653 Techniques and Theories of Counseling in Education (3) Contemporary theories of counseling, personality, and psychotherapy. Discussion of techniques and issues in counseling; practice interviewing and counseling using specific techniques. *Prerequisite:* 21.551.

21.654 Career Counseling Theory and Practice (3) Administration and interpretation of vocational testing; methods of preparing and presenting occupational information; research and theories of vocational choice; theories and practices in placement. Emphasis is on the adult learner. Usually offered every spring. *Prerequisite:* permission of instructor.

21.657 Supervision of Counseling (3–6) Comparison of various theoretical models of supervision. Students are involved in supervising paraprofessionals and master's degree students as they develop their own skills. *Prerequisite:* 21.659, admission to the doctoral program in counseling, and permission of instructor.

21.658 Family Systems and Family Therapy (3) The family as a system. Emphasis is on interaction of family members, family crises, diagnosis, and family treatment theories and interventions. Conjoint and Multiple Impact Therapy approaches and other interdisciplinary and ecological systems of family therapy are also emphasized. *Prerequisite:* 21.551.

21.663 The Community College (3) Organizational patterns, diversity of function, student and faculty, and current problems of the two-year institution. Usually offered every summer.

21.666 Legal Aspects of Education (3) For advanced graduate students pursuing degrees in administration or counseling and development. Study of student-institution relationship, institutional judicial systems, student rights, records, and due-process issues.

21.671 Foundations of Reading: Diagnosis and Remediation (3) Broad considerations underlying the teaching of reading with emphasis on reading disability and problems of the retarded reader. Usually offered every spring.

21.678 Comparative and International Education (3) This course explores the nature of education as a social institution, examining the way in which education both reflects and influences cultural, social, economic, and political life in a variety of nations and cultures. Special emphasis is placed on education as a means to address contemporary global problems.

21.679 Nonformal Education and Development (3) An examination of the role of nonformal education in the economic, social, and political development of developing nations. Specifically, the course deals with out-of-school programs in adult education, literacy, health, family planning, agriculture, nutrition, and community development. Case materials from several countries are used to study the issues and techniques involved in human resource development.

21.682 School Supervision (3) For prospective and in-service supervisors of elementary and secondary schools. Purposes, principles, and techniques of supervision.

21.689 Sexism in School and Society: National and International Perspectives (3) Topics include textbooks, school counseling, sex-segregated schools, school personnel behavior, vocational education, physical education and athletics, and international developments concerning sex equity. Examination of recent attempts to develop sex-fair textbooks, legal actions such as Title IX of the 1972 Education amendments, and case studies. Meets with 21.389. Usually offered every spring.

21.690 Independent Study Project in Education (1–6)

21.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication. *Prerequisite:* completion of nine semester hours of course work and permission of director.

21.693 Program and Training Evaluation (3) The course seeks to develop the systematic skills needed to conduct evaluations of training and development programs in various educational and organizational settings. Usually offered every spring. *Prerequisite:* 21.525 or equivalent.

21.765 Seminar in Student Development in Higher Education (3) Issues and problems in contemporary programs of student personnel administration. Usually offered every term. *Prerequisite:* permission of instructor.

21.769 Practicum in Student Development (3–6) For advanced students in student personnel services in higher education. Students are assigned to areas of a program of student personnel services for exploratory administrative case and research experience. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* permission of instructor.

21.790 Educational Research (3) Fundamentals, methods, and materials for educational research. Required of all students. *Prerequisite:* 21.525 or equivalent and admission to a graduate program in education.

21.791 Research Seminar in Education (3) A comprehensive research paper is required. A grade of B or better is required to receive credit. *Prerequisite:* 21.790.

21.792 In-Service Training Project: Internship in Education (3–12) Internships in cooperating school systems and other agencies and organizations as an integral part of degree programs in the School of Education. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

21.797 Master's Thesis Seminar (1–6) At least three semester hours required of all students working on master's theses.

21.799 Doctoral Dissertation Seminar (1–12) A total of twelve semester hours is required of all students working on doctoral dissertations. Usually offered every term. *Prerequisite:* 21.790 or equivalent and advancement to candidacy.

Literature

Undergraduate Courses

23.100 College Writing (3) Develops students' skills in reading with understanding; summarizing and synthesizing information accurately; and writing correct, reasoned prose. Usually offered every term.

23.101 College Writing Seminar (3) Continues the work begun in 23.100, stressing the student's abilities to construct extended arguments, to synthesize diverse materials, and to pursue library research. Usually offered every term. *Prerequisite:* 23.100 or equivalent.

23.102 College Writing (3) 23.102 and 23.103 are essentially the same as 23.100 and 23.101. They are designed, however, for students whose language skills need special attention, and they have an additional class session each week. Usually offered every term.

23.103 College Writing Seminar (3) See course description for 23.102. Usually offered every term. *Prerequisite:* 23.102 or equivalent.

23.110 College Reading (2–3) Develops the ability to cope efficiently with the rigors of academic life. Emphasizes practical techniques of reading in different disciplines, speed reading, time management, note taking, exam skills, and research. Usually offered every term. Consult adviser to determine whether to register for 2 or 3 semester hours.

23.130 Honors English I (3) Limited to first-year students, by invitation. Usually offered every fall.

23.131 Honors English II (3) Limited to first-year students, by invitation. Usually offered every spring.

23.140 Critical Reading (3) Study of the means by which literary artists contemplate and comprehend human experience, and artistic techniques that shape and achieve form. Required of all literature majors. Usually offered every term.

23.141 Understanding Literature /A (3) Designed to make literature more accessible to students. Introduction to the various kinds of literature and discussion of the relations between author, work, and society. Intended primarily for nonmajors. Usually offered every term.

23.180 Writing Workshop (3) An intensive writing seminar reviewing grammar the principles of clear, correct expository prose. Completion with a grade of C or better fulfills university competency requirement. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or 23.102 and 23.103 or permission of instructor.

23.200 Introduction to Creative Writing (3) Creative writing for beginning students who want to write poetry, fiction, drama, reportage, and autobiography, with specific assignments in each category. With departmental permission, course may be repeated for credit, but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or equivalent.

23.201 Advanced Writing Workshop (3) Seminar designed to help students polish their writing skills. Stresses persuasive, expository, and informational writing. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or equivalent.

23.202 Writing for Prospective Lawyers (3) An advanced course in writing designed to hone the skills necessary to write legal briefs, memoranda, and agreements. Particular attention is paid to logic and argumentation. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or equivalent.

23.203 Business Writing (3) The course stresses clarity, conciseness, and directness in the preparation of correspondence, memoranda, reports, proposals, and other kinds of writing common in the business world. Usually offered every spring. *Prerequisite:* 23.100 and 23.101 or 23.102 and 23.103.

23.205 Issues, Ideas, and Words (3) Through class discussions and frequent written assignments, the course helps students understand and articulate their learning in relation to thought in the humanities, natural sciences, and social sciences. Enrollment limited to students in the APEL program. Usually offered every term.

23.210 Major American Writers I: An Introductory Survey /A (3) A study of the American writers who exercised a formative and continuing influence on American letters and intellectual life. An appraisal of their roles in the history of literature and thought and an aesthetic evaluation of their works. The colonial, national, and romantic periods. Usually offered every fall.

23.211 Major American Writers II: An Introductory Survey /A (3) A study of the American writers who exercised a formative and continuing influence on American letters and intellectual life. An appraisal of their roles in the history of literature and thought and an aesthetic evaluation of their works. The realist, naturalist, modern, and contemporary periods. Usually offered every spring.

23.220 Major British Writers I: An Introductory Survey /A (3) A study of the principal writers of the British tradition: Chaucer, Spenser, Shakespeare, Bacon, Donne, Milton, Dryden, Swift, Pope, Johnson, and Boswell. Each writer is examined as a representative voice of his age and as an individual artist. Usually offered every fall.

23.221 Major British Writers II: An Introductory Survey /A (3) A study of the principal writers of the British tradition: Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Shaw, Yeats, and Eliot. Each writer is examined as a representative voice of his age and as an individual artist. Usually offered every spring.

23.230 Major European Writers I: An Introductory Survey /A (3) A study of selected continental writers from the Greeks to the seventeenth century. The method is chronological, with attention given to the emergence and development of major literary forms. Usually offered every fall.

23.231 Major European Writers II /A (3) An introductory survey of the major European writers and literary periods from the eighteenth to the twentieth century. Usually offered every spring.

23.241 Living Writers /A (3) Offers students the opportunity to study works by contemporary authors and then to continue their exploration of these works in meetings with the writers. Features locally and nationally prominent writers, including American University writing faculty. Usually offered every spring.

23.250 Image of Italy in English and American Writers (3) From Edward Gibbon to Ezra Pound, English and American writers have been stimulated by their experience in Italy in a way fundamental to the development of their work. This course explores the changing and complex image of Italy in English and American literature. Offered only in Rome. Usually offered every term.

23.251 Roman Literature in Translation (3) A survey of ancient Roman literature focusing on the theme of urbanity and city life from Plautus through Juvenal, middle republic through middle empire. Readings from comedy, lyric poetry, epic, history, essay, novella, letters, law, and satire. Usually offered every term. Offered only in Rome.

23.260 Introductory Topics in Literature (3) Designed primarily to introduce nonmajors to literary topics of contemporary and enduring interest. Rotating topics such as Introduction to Shakespeare in Performance, American Humor, Contemporary Women Writers. Usually offered every term.

23.275 Critical Approach to the Cinema /A (3) An introduction to understanding movies. Critical and theoretical perspectives on the many forms of film art: nonfiction, animation, popular genres, independent films, etc. The relation of film to the other arts. Screenings, readings, analysis, and an opportunity to make a Super 8 film. Usually offered every term. Laboratory fee.

23.300 History of the English Language (3) Development of the language from Old English to Modern English, with study of phonology, morphology, semantics, and vocabulary.

23.301 Development of the Novel (3) A study of the form of the novel in the West, from its beginnings on the European continent during the Renaissance (Cervantes and Madame de La Fayette), through the New Novel (Robbe-Grillet). Readings in representative novelists and critics of the genre.

23.303 The Short Story (3) Concentrates either on the evolution of the short story as a form, or on its characteristic shape in particular literary traditions (e.g., Eastern Europe) or at particular times (e.g., The Contemporary American Short Story). May be repeated for credit in the same term; topic must be different.

23.304 Elements of Poetry (3) A detailed treatment of the various critical approaches to poetry. Emphasis is on genre, form, figurative language, etc., not on literary history.

23.306 Topics in Folklore (3) Rotating topics, including ethnic folklore; occupational folklore; folklore and literature; women's folklore; folktales, ballads, and epics; the folklore of Ireland; storytelling and society; urban folklore; the folklore of Washington, D.C.; family folklore; and children's folklore. May be repeated for credit in the same term; topic must be different. Usually offered every spring.

23.307 Drama: The Page and the Stage (3) Examples of major dramatic forms (tragedy comedy, and tragicomedy) from the classical Greek period to the present. The plays are studied as drama and as cultural artifacts of the ages in which they were produced. Usually offered alternate falls.

23.308 Modern Drama (3) Modern drama as written literature, from Ibsen to the most recent dramatic movements: theatre of the absurd, theatre of cruelty, etc.

23.315 Poetry in the Age of Whitman and Dickinson (3) Focus on the poems of Whitman and Dickinson, although other writers may be studied, in order to illuminate the period. The course is not primarily historical, but aims at relating the background to the works of art. Close reading of individual texts is required. Usually offered alternate falls.

23.316 Nineteenth-Century American Novel (3) Emphasis on literary evolution of a form as it expresses historical evolution of national consciousness. Novelists studied include Hawthorne and Melville.

23.317 Emerson, Thoreau, and Twain: Nineteenth-Century American Prose (3) Readings in nonfictive nonpoetic literature—essays, addresses, journals, lectures, etc.—of the nineteenth century. The work of Emerson and Thoreau is stressed. Usually offered alternate springs.

23.318 Realism and Naturalism in American Fiction (3) Characteristics of turn-of-the-century fiction. Reading includes novels and shorter fiction: Henry James, Mark Twain, William Dean Howells, Kate Chopin, Stephen Crane, Edith Wharton, and Sarah Orne Jewett. Usually offered alternate falls.

23.320 Modern American Poetry, 1912–1950 (3) Detailed treatment of such established figures as Eliot, Stevens, Frost, Pound, and Williams. The poets chosen may differ from semester to semester, but at least two of these names appear in every session. Other poets may be considered at the discretion of the instructor. Usually offered alternate falls.

23.321 Faulkner and the Literature of the South (3) Readings in the novels, stories, poetry, and essays of the major figures (Southern Agrarians, Wolfe, W.A. Percy, and especially Faulkner) and their successors (O'Connor, Welty, and Walker Percy). Concern is with their art, with the social conditions in which they flourished, and their attitudes toward those conditions. Usually offered alternate falls.

23.322 Contemporary American Poetry (3) An examination of the chief theories, figures, and modes of American poetry since World War II.

23.323 Contemporary American Fiction (3) An introduction to the themes, forms, and strategies of recent fiction that are characteristically American. The approach is selective rather than inclusive. The course follows the currents of contemporary American fiction in order to locate individual works within a context of shared, if varied, sensibility. Usually offered every spring.

23.324 Black American Literature (3) Survey of black American literature (major and minor writers) from the poetry of Phyllis Wheatley and the slave narratives of the eighteenth century through recent fiction and autobiography (Toni Morrison and Malcolm X).

23.325 Fitzgerald and Hemingway (3) A study of the fiction of Fitzgerald and Hemingway with emphasis on their common theme of loss. The relationship between them and their place in the literary period of the twenties and thirties is explored, but the main emphasis is thematic analysis of specific works.

23.326 The American Political Novel (3) An investigation of what has happened when American writers have engaged

political issues or the political process itself. Typical readings include Cooper's *The Crater*, Adams's *Democracy*, London's *The Iron Heel*, Conroy's *The Disinherited*, Rand's *We, the Living*, and Ellison's *Invisible Man*. Usually offered alternate springs.

23.330 Celtic Myth and Literature (3) Shows the vital importance of literature in all aspects of early Indo-European society—religion, magic, government, law, education, etc. Includes readings in history, archaeology, social structure, art, and myths, as well as major sagas and poems of Ireland and Wales.

23.331 Chaucer (3) A study of the narrative art and moral vision of Chaucer's poetry. Directed readings in social, historical, and intellectual backgrounds. An introduction to the study of medieval literature.

23.332 Shakespeare I (3) Selected earlier plays. Usually offered every fall.

23.333 Shakespeare II (3) Selected later plays. Usually offered every spring.

23.334 Renaissance Drama (3) An introduction to the drama from 1580 to 1642. Includes study of the two major dramatists other than Shakespeare, Christopher Marlowe and Ben Jonson, and a selection from the work of other dramatists.

23.335 Renaissance Poetry (3) Nondramatic literature of the period 1580–1660, with special emphasis on the poetry of Sidney, Spenser, Donne, and the Metaphysical and Cavalier poets. Selections from Shakespeare and Milton included, as well as some prose.

23.336 Milton (3) Milton as a thinker and a poet. Selections from the prose works are read and analyzed as background for Milton's thought. The majority of the semester is devoted to a close reading of the poems, which are studied with a view toward tracing Milton's development of form and his methods of projecting his world view.

23.339 The Rise of the British Novel (3) A study of novels such as *Moll Flanders*, *Clarissa*, *Tom Jones*, *Tristram Shandy*, and *Emma*, which, with a variety of attitudes and narrative techniques, give images of how real people deal with themselves and others, and portray family life, street life, courtship difficulties, and moral dilemmas of seventeenth and eighteenth-century England.

23.340 Dickens to Conrad: The Nineteenth-Century British Novel (3) Authors such as Dickens and Hardy, titles such as *Vanity Fair*, *Middlemarch*, and *Wuthering Heights*, which explore people's attempts to deal with powerful social pressures, the attractions of money and success, characters' individual impulses and needs, and the eternal verities. Technique is studied, as well as theme and character.

23.341 The Romantic Imagination (3) A study of some central figures in the English romantic movement. Students acquire knowledge of the elements and characteristics of this nineteenth-century phenomenon that permeated European culture and influenced American artists and writers. Attention to at least three of the following: Wordsworth, Coleridge, Byron, Shelley, Keats, and Blake.

23.342 Literature and Society in Victorian England (3) Representative works of the Victorian age in England, including poems of Tennyson, Browning, and Arnold; at least two novels of the period; and nonfictional prose of Carlyle, Ruskin, Arnold, and Pater.

23.343 Modern British Fiction (3) Selected novels by twentieth-century British writers. Considers the changing ideas and changing form of the novel in England, including matters of technique, style, and social themes. Readings include novels by Joyce, Lawrence, Forster, Woolf, Huxley, Fowles, Lessing, and others. Usually offered every fall.

23.344 Modern British Drama and Poetry (3) Main trends in British poetry and drama from the period of World War I to the present. Reading and discussion of such representative poets as Hardy, Yeats, Owen, Lawrence, Edith Sitwell, Thomas, and Auden; and such representative playwrights as Shaw, Maugham, O'Casey, Eliot, Behan, and Pinter. Usually offered alternate springs.

23.345 The Irish Renaissance (3) The works of Yeats, Joyce, Synge, O'Casey, Frank O'Connor, Liam O'Flaherty, and others are read, and the tradition they form is related to contemporary nationalist movements. Topics alternate between the prose fiction and the poetry and drama of modern Ireland. May be repeated for credit but not in the same term; topic must be different.

23.346 Studies in George Bernard Shaw (3) The complete Shaw: playwright, socialist, pamphleteer, revolutionist, creative evolutionist, and even poet. All the plays are read and as many political and social works as seem practicable. In addition, parallel reading of biographical and critical material is assigned.

23.347 Studies in Joyce (3) Exploration of selected items of the Joyce canon; texts vary from year to year. Some knowledge of Joyce's life and work is highly desirable. Acquaintance with late nineteenth-and early twentieth-century Anglo-Irish literature and with Irish history from the Famine to the Treaty is desirable but not necessary.

23.348 Studies in D.H. Lawrence (3) A chronological reading of Lawrence's major poetry and fiction in order to estimate his contribution to the development of poetic and narrative form and to evaluate his advocacy of individual and social regeneration.

23.360 Medieval Literature (3) The beginnings of literature in Western Europe. A study of that literature as the definition, celebration, and examination of the aesthetic and ethical values of medieval culture. Medieval epic drama, lyric, and romance in translation.

23.361 Directions in Modern Fiction (3) Fiction that embodies distinctive threads of the twentieth-century fiction of several nationalities (American, English, French, and German). Emphasis is on underlying philosophical-psychological premises reflected in the works, such as existentialism and myth, and on techniques and innovations such as stream of consciousness, point of view, and chronology.

23.363 French Literature (3) An introduction to French literature (fiction, drama, and poetry in translation) from the tenth century to the present. Among the writers treated are Chrétien de Troyes, Rabelais, Racine, Molière, la Rochefoucauld, Voltaire, Hugo, Balzac, Flaubert, Baudelaire, Proust, Malraux, and Robbe-Grillet.

23.367 Russian and Soviet Literature (3) An introduction to Russian and Soviet literature, in translation, from the Middle Ages to the present.

23.368 Dostoevsky and Tolstoy (3) Intensive study of selected works of Dostoevsky and Tolstoy. Authors are treated individually with some comparison.

23.370 A Room of One's Own: Women and Literature (3) Women as writers of and characters in literature. The major issues dealt with are coming of age, sexuality, marriage, alternative roles, identity, motherhood, androgyny, and autonomy. Readings include works by both female and male authors—Woolf, Austen, Hardy, Hawthorne, Lessing, Drabble, Ibsen, and others.

23.375 Film and Literature (3) Adaptations of literature to film and film to literature. Themes and techniques shared among storytelling arts. Psychological, social, and political implications of analogous works of poetry, fiction, drama, and film. Usually offered every fall. Laboratory fee.

23.376 National Cinema (3) Landmarks of the cinema from a particular country or region such as France, Italy, Eastern Europe, Japan, and the United States. Screenings, readings, and analysis, with attention to artistic movements, historical contexts, and clashing theories and styles. May be repeated for credit in the same term; topic must be different. Laboratory fee.

23.377 Popular Film Genres (3) The traditions, conventions, and outstanding films and filmmakers of a popular genre such as comedy, the western, the thriller, the musical, the gangster film, science fiction, detective, and horror movies. Screenings, readings, discussions, and written analyses. Usually offered every fall. May be repeated for credit in the same term; topic must be different. Laboratory fee.

23.378 Major Filmmakers (3) Intensive study of one or two great directors such as Hitchcock, Antonioni, Fellini, Kurosawa, Ozu, Chaplin, Bergman, and Ford. Screenings, analyses, and critical readings to explore evolving personal style, aesthetic and social context, and theoretical issues. Laboratory fee.

23.380 Independent Filmmakers (3) Underground, experimental, avant-garde, radical, and personal films, usually short films made outside the established filmmaking industry. The freedom in the choice of subject matter and techniques, the variety of modes and styles, and the sheer intensity of works of Brakhage, Frampton, Belson, Warhol, Vertov, Dehren, and scores of others destroy the myth that only commercial, feature-length films can be great. Laboratory fee.

23.383 Film and Literature on World War II (3) Films and books embodying the experience of World War II. A study of works from social and political points of view, and the cinematic and literary strategies of films such as *Triumph of the Will*, Chaplin's *Great Dictator*, Rossellini's *Open City*, Ophuls' *Sorrow and the Pity*, Eisenstein's *Potemkin*, and Nemec's *Diamonds of the Night*. Usually offered alternate springs. Laboratory fee.

23.390 Independent Reading Course in Literature (1–6)

23.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication.

23.400 Creative Writing: Fiction (3) A writing workshop with students reading their work aloud and commenting on one another's efforts. The teacher reserves the right to have the last word. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term. *Prerequisite:* permission of instructor.

23.401 Creative Writing: Poetry (3) An intensive approach to the techniques of writing verse, followed by several weeks of workshop sessions in which students' poems receive responses from the entire class. With permission of instructor may be repeated for credit once, but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* permission of instructor.

23.402 Creative Writing: Film Script (3) An introduction to writing developing stories for the screen. A study of the special contributions of the writer to film art. Screenings, reading, writing, and rewriting. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term. Meets with 23.702. *Prerequisite:* permission of instructor.

23.403 Technical and Report Writing (3) An overview of the kinds of writing expected of scientists, social scientists, engineers, and other interpreters of technical information. Course work centers on intensive practice applying the principles of clear expression and effective rhetoric to reports, memoranda, manuals, and articles for technical journals. Meets with 23.703. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or equivalent.

23.405 Seminar on Translation (3) Designed primarily for writers, this course introduces students to the international community of writers by providing approaches to and models for the translation of literary works as well as experience in translating. It is expected that students will learn about the use of their own language in the process. Fluency in another language is helpful but not required. Usually offered every spring. Meets with 23.705.

23.410 The Art of Literary Journalism (3) A workshop in which the craft of reviewing books, plays, movies, TV, art, and music is practiced. Speakers who are professionals in each craft are invited to class. Clear expository writing is the aim, tied to established criteria for sound critical approaches in journalism. Usually offered every spring. Meets with 23.710.

23.490 Independent Study Project in Literature (1–6)

23.491 Practical Internship in Literature (3) Practical work in writing and research for various agencies and publications. Experience in apprentice teaching with private schools and diverse groups. Project must be approved in advance by department chair or undergraduate adviser. Usually offered every term.

23.498 Departmental Honors, Senior Year (3)

23.499 Departmental Honors, Senior Year (3)

Graduate and Advanced Undergraduate Course

23.590 Independent Reading Course in Literature (1–6)

Graduate Courses

Note: 600-level courses in literature generally meet with 300-level courses. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

23.600 History of the English Language (3) Development of the language from Old English to Modern English, with study of phonology, morphology, semantics, and vocabulary.

23.601 Development of the Novel (3) A study of the form of the novel in the West, from its beginnings on the European continent during the Renaissance (Cervantes and Madame de La Fayette), through the New Novel (Robbe-Grillet). Readings in representative novelists and critics of the genre.

23.603 The Short Story (3) Concentrates either on the evolution of the short story as a form, or on its characteristic shape in particular literary traditions (e.g., Eastern Europe) or at particular times (e.g., The Contemporary American Short Story). May be repeated for credit in the same term; topic must be different.

23.604 Elements of Poetry (3) A detailed treatment of the various critical approaches to poetry. Emphasis is on genre, form, figurative language, etc., not on literary history.

23.606 Topics in Folklore (3) Rotating topics, including ethnic folklore; occupational folklore; folklore and literature; women's folklore; folktales, ballads, and epics; the folklore of Ireland; storytelling and society; urban folklore; the folklore of Washington, D.C.; family folklore; and children's folklore. May be repeated for credit in the same term; topic must be different. Usually offered every spring.

23.607 Drama: The Page and the Stage (3) Examples of major dramatic forms (tragedy comedy, and tragicomedy) from the classical Greek period to the present. The plays are studied as drama and as cultural artifacts of the ages in which they were produced. Usually offered alternate falls.

23.608 Modern Drama (3) Modern drama as written literature, from Ibsen to the most recent dramatic movements: theatre of the absurd, theatre of cruelty, etc.

23.615 Poetry in the Age of Whitman and Dickinson (3) Focus on the poems of Whitman and Dickinson, although other writers may be studied, in order to illuminate the period. The course is not primarily historical, but aims at relating the background to the works of art. Close reading of individual texts is required. Usually offered alternate falls.

23.616 Nineteenth-Century American Novel (3) Emphasis on literary evolution of a form as it expresses historical evolution of national consciousness. Novelists studied include Hawthorne and Melville.

23.617 Emerson, Thoreau, and Twain: Nineteenth-Century American Prose (3) Readings in nonfictive nonpoetic literature—essays, addresses, journals, lectures, etc.—of the nineteenth century. The work of Emerson and Thoreau is stressed. Usually offered alternate springs.

23.618 Realism and Naturalism in American Fiction (3) Characteristics of turn-of-the-century fiction. Reading includes novels and shorter fiction: Henry James, Mark Twain, William Dean Howells, Kate Chopin, Stephen Crane, Edith Wharton, and Sarah Orne Jewett. Usually offered alternate falls.

23.620 Modern American Poetry, 1912–1950 (3) Detailed treatment of such established figures as Eliot, Stevens, Frost, Pound, and Williams. The poets chosen may differ from semester to semester, but at least two of these names appear in every session. Other poets may be considered at the discretion of the instructor. Usually offered alternate falls.

23.621 Faulkner and the Literature of the South (3) Readings in the novels, stories, poetry, and essays of the major figures (Southern Agrarians, Wolfe, W.A. Percy, and especially Faulkner) and their successors (O'Connor, Welty, and Walker Percy). Concern is with their art, with the social conditions in which they flourished, and their attitudes toward those conditions. Usually offered alternate falls.

23.622 Contemporary American Poetry (3) An examination of the chief theories, figures, and modes of American poetry since World War II.

23.623 Contemporary American Fiction (3) An introduction to the themes, forms, and strategies of recent fiction that are characteristically American. The approach is selective rather than inclusive. The course follows the currents of contemporary American fiction in order to locate individual works within a context of shared, if varied, sensibility. Usually offered every spring.

23.624 Black American Literature (3) Survey of black American literature (major and minor writers) from the poetry of Phyllis Wheatley and the slave narratives of the eighteenth century through recent fiction and autobiography (Toni Morrison and Malcolm X).

23.625 Fitzgerald and Hemingway (3) A study of the fiction of Fitzgerald and Hemingway with emphasis on their common theme of loss. The relationship between them and their place in the literary period of the twenties and thirties is explored, but the main emphasis is thematic analysis of specific works.

23.626 The American Political Novel (3) An investigation of what has happened when American writers have engaged political issues or the political process itself. Typical readings include Cooper's *The Crater*, Adams's *Democracy*, London's *The Iron Heel*, Conroy's *The Disinherited*, Rand's *We, the Living*, and Ellison's *Invisible Man*. Usually offered alternate springs.

23.630 Celtic Myth and Literature (3) Shows the vital importance of literature in all aspects of early Indo-European society—religion, magic, government, law, education, etc. Includes readings in history, archaeology, social structure, art, and myths, as well as major sagas and poems of Ireland and Wales.

23.631 Chaucer (3) A study of the narrative art and moral vision of Chaucer's poetry. Directed readings in social, historical, and intellectual backgrounds. An introduction to the study of medieval literature.

23.632 Shakespeare I (3) Selected earlier plays. Usually offered every fall.

23.633 Shakespeare II (3) Selected later plays. Usually offered every spring.

23.634 Renaissance Drama (3) An introduction to the drama from 1580 to 1642. Includes study of the two major dramatists other than Shakespeare, Christopher Marlowe and Ben Jonson, and a selection from the work of other dramatists.

23.635 Renaissance Poetry (3) Nondramatic literature of the period 1580–1660, with special emphasis on the poetry of Sidney, Spenser, Donne, and the Metaphysical and Cavalier poets. Selections from Shakespeare and Milton included, as well as some prose.

23.636 Milton (3) Milton as a thinker and a poet. Selections from the prose works are read and analyzed as background for Milton's thought. The majority of the semester is devoted to a close reading of the poems, which are studied with a view toward tracing Milton's development of form and his methods of projecting his world view.

23.639 The Rise of the British Novel (3) A study of novels such as *Moll Flanders*, *Clarissa*, *Tom Jones*, *Tristram Shandy*, and *Emma*, which, with a variety of attitudes and narrative techniques, give images of how real people deal with themselves and others, and portray family life, street life, courtship difficulties, and moral dilemmas of seventeenth and eighteenth-century England.

23.640 Dickens to Conrad: The Nineteenth-Century British Novel (3) Authors such as Dickens and Hardy, titles such as *Vanity Fair*, *Middlemarch*, and *Wuthering Heights*, which explore people's attempts to deal with powerful social pressures, the attractions of money and success, characters' individual impulses and needs, and the eternal verities. Technique is studied, as well as theme and character.

23.641 The Romantic Imagination (3) A study of some central figures in the English romantic movement. Students acquire knowledge of the elements and characteristics of this nineteenth-century phenomenon that permeated European culture and influenced American artists and writers. Attention to at least three of the following: Wordsworth, Coleridge, Byron, Shelley, Keats, and Blake.

23.642 Literature and Society in Victorian England (3) Representative works of the Victorian age in England, including poems of Tennyson, Browning, and Arnold; at least two novels of the period; and nonfictional prose of Carlyle, Ruskin, Arnold, and Pater.

23.643 Modern British Fiction (3) Selected novels by twentieth-century British writers. Considers the changing ideas and changing form of the novel in England, including matters of technique, style, and social themes. Readings include novels by Joyce, Lawrence, Forster, Woolf, Huxley, Fowles, Lessing, and others. Usually offered every fall.

23.644 Modern British Drama and Poetry (3) Main trends in British poetry and drama from the period of World War I to the present. Reading and discussion of such representative poets as Hardy, Yeats, Owen, Lawrence, Edith Sitwell, Thomas, and Auden; and such representative playwrights as Shaw, Maugham, O'Casey, Eliot, Behan, and Pinter. Usually offered alternate springs.

23.645 The Irish Renaissance (3) The works of Yeats, Joyce, Synge, O'Casey, Frank O'Connor, Liam O'Flaherty, and others are read, and the tradition they form is related to contemporary nationalist movements. Topics alternate between the prose fiction and the poetry and drama of modern Ireland. May be repeated for credit but not in the same term; topic must be different.

23.646 Studies in George Bernard Shaw (3) The complete Shaw: playwright, socialist, pamphleteer, revolutionist, creative evolutionist, and even poet. All the plays are read and as many political and social works as seem practicable. In addition, parallel reading of biographical and critical material is assigned.

23.647 Studies in Joyce (3) Exploration of selected items of the Joyce canon; texts vary from year to year. Some knowledge of Joyce's life and work is highly desirable. Acquaintance with late nineteenth-and early twentieth-century Anglo-Irish literature and with Irish history from the Famine to the Treaty is desirable but not necessary.

23.648 Studies in D.H. Lawrence (3) A chronological reading of Lawrence's major poetry and fiction in order to estimate his contribution to the development of poetic and narrative form and to evaluate his advocacy of individual and social regeneration.

23.660 Medieval Literature (3) The beginnings of literature in Western Europe. A study of that literature as the definition, celebration, and examination of the aesthetic and ethical values of medieval culture. Medieval epic drama, lyric, and romance in translation.

23.661 Directions in Modern Fiction (3) Fiction that embodies distinctive threads of the twentieth-century fiction of several nationalities (American, English, French, and German). Emphasis is on underlying philosophical-psychological premises reflected in the works, such as existentialism and myth, and on techniques and innovations such as stream of consciousness, point of view, and chronology.

23.663 French Literature (3) An introduction to French literature (fiction, drama, and poetry in translation) from the tenth century to the present. Among the writers treated are Chrétien de Troyes, Rabelais, Racine, Molière, la Rochefoucauld, Voltaire, Hugo, Balzac, Flaubert, Baudelaire, Proust, Malraux, and Robbe-Grillet.

23.667 Russian and Soviet Literature (3) An introduction to Russian and Soviet literature, in translation, from the Middle Ages to the present.

23.668 Dostoevsky and Tolstoy (3) Intensive study of selected works of Dostoevsky and Tolstoy. Authors are treated individually with some comparison.

23.670 A Room of One's Own: Women and Literature (3) Women as writers of and characters in literature. The major issues dealt with are coming of age, sexuality, marriage, alternative roles, identity, motherhood, androgyny, and autonomy. Readings include works by both female and male authors—Woolf, Austen, Hardy, Hawthorne, Lessing, Drabble, Ibsen, and others.

23.675 Film and Literature (3) Adaptations of literature to film and film to literature. Themes and techniques shared among storytelling arts. Psychological, social, and political implications of analogous works of poetry, fiction, drama, and film. Usually offered every fall. Laboratory fee.

23.676 National Cinema (3) Landmarks of the cinema from a particular country or region such as France, Italy, Eastern Europe, Japan, and the United States. Screenings, readings, and analysis, with attention to artistic movements, historical contexts, and clashing theories and styles. May be repeated for credit in the same term; topic must be different. Laboratory fee.

23.677 Popular Film Genres (3) The traditions, conventions, and outstanding films and filmmakers of a popular genre such as comedy, the western, the thriller, the musical, the gangster film, science fiction, detective, and horror movies. Screenings, readings, discussions, and written analyses. Usually offered every fall. May be repeated for credit in the same term; topic must be different. Laboratory fee.

23.678 Major Filmmakers (3) Intensive study of one or two great directors such as Hitchcock, Antonioni, Fellini, Kurosawa, Ozu, Chaplin, Bergman, and Ford. Screenings, analyses, and critical readings to explore evolving personal style, aesthetic and social context, and theoretical issues. Laboratory fee.

23.680 Independent Filmmakers (3) Underground, experimental, avant-garde, radical, and personal films, usually short films made outside the established filmmaking industry. The freedom in the choice of subject matter and techniques, the variety of modes and styles, and the sheer intensity of works of Brakhage, Frampton, Belson, Warhol, Vertov, Dehren, and scores of others destroy the myth that only commercial, feature-length films can be great. Laboratory fee.

23.683 Film and Literature on World War II (3) Films and books embodying the experience of World War II. A study of works from social and political points of view, and the cinematic and literary strategies of films such as *Triumph of the Will*, Chaplin's *Great Dictator*, Rossellini's *Open City*, Ophuls' *Sorrow and the Pity*, Eisenstein's *Potemkin*, and Nemec's *Diamonds of the Night*. Usually offered alternate springs. Laboratory fee.

23.690 Independent Study Project in Literature (1–6)

23.691 Graduate Internship (1–6) Practical experience in positions making use of the students' writing and organizational skills. Internships are arranged and supervised by a member of the department; consult department office. Required of M.F.A. candidates; open to other graduate students in the department. Usually offered every term. May be repeated for credit, but not in the same term. *Prerequisite:* graduate standing in the department.

23.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

23.700 Advanced Fiction Workshop (3) A writing workshop with students reading their work aloud and commenting on one another's efforts. The teacher reserves the right to have the last word. Graduate students are expected to submit 12,500 words or more. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term.

23.701 Advanced Poetry Workshop (3) An intensive approach to the techniques of writing verse, followed by several weeks of workshop sessions in which students' poems receive responses from the entire class. With permission of instructor may be repeated for credit once, but not in the same term; topic may be the same. Usually offered every term.

23.702 Creative Writing: Film Script (3) An introduction to writing developing stories for the screen. A study of the special contributions of the writer to film art. Screenings, reading, writing, and rewriting. With permission of instructor may be repeated for credit once, but not in the same term. Usually offered every term. Meets with 23.402.

23.703 Technical and Report Writing (3) An overview of the kinds of writing expected of scientists, social scientists, engineers, and other interpreters of technical information. Course work centers on intensive practice applying the principles of clear expression and effective rhetoric to reports, memoranda, manuals, and articles for technical journals. Meets with 23.403. Usually offered every term. *Prerequisite:* 23.100 and 23.101 or equivalent.

23.705 Seminar on Translation (3) Designed primarily for writers, this course introduces students to the international community of writers by providing approaches to and models for the translation of literary works as well as experience in translating. It is expected that students will learn about the use of their own language in the process. Fluency in another language is helpful but not required. Usually offered every spring. Meets with 23.405.

23.710 The Art of Literary Journalism (3) A workshop in which the craft of reviewing books, plays, movies, TV, art, and music is practiced. Speakers who are professionals in each craft are invited to class. Clear expository writing is the aim, tied to established criteria for sound critical approaches in journalism. Usually offered every spring. Meets with 23.410.

23.725 Studies in Genre (3) Graduate seminar. A study of various kinds of literary expression. Topic changes yearly. Previous topics have been the comic vision, short American fiction, the introspective novel, formal theory of the novel, and tragedy. May be repeated for credit in the same term; topic must be different. Usually offered every term.

23.726 Studies in Major Writers (3) Graduate seminar. A study of the works of one or two selected writers. Topic changed yearly. Previous topics have been Shakespeare, Keats, Dickens, Whitman, Eliot, Yeats, and Melville. May be repeated for credit in the same term; topic must be different. Usually offered evey term.

23.750 The Folger Seminar in Renaissance and Eighteenth-Century Studies (3) Each semester three graduate seminars are offered. Graduate students at The American University are eligible to participate and should consult the Department of Literature. May be taken more than one semester.

23.797 Master's Thesis Seminar (1–6)

Center for Public Financial Management

Graduate Courses

28.604 Public Management (3) This introduction to public administration focuses on the problems of management in public agencies—the activities of public managers, the different settings and tasks of government agencies, the administrative methods and strategies used by public managers, and the applicability of these methods under different conditions. *Prerequisite:* approval by the Center for Public Financial Management.

28.606 Managerial Macroeconomics (3) Study of methods of macroeconomic measurement, and the development of analytical methods for examining applied issues of national income determination, money markets and interest rates, and investment, spending, and saving behavior in the private and public sectors. *Prerequisite:* approval by the Center for Public Financial Management.

28.608 Accounting and Budgeting for Public Managers (3) Premises, principles, and procedures for financial accounting for industry and federal and local government. Accounting for decision making in students' organizations. Emphasis

on viewpoints of users, especially operating and budget officials. Discussion of budgeting and auditing functions is integrated into accounting lectures and illustrations. Current financial-management priorities of government are also discussed. Usually offered every spring. *Prerequisite:* approval by the Center for Public Financial Management.

28.610 Public Finance (3) This course develops a theoretical basis and a working knowledge of techniques needed to examine and evaluate public-sector activity. Topics include the role and size of the public sector, budget determination and forecasting, public expenditure evaluation and revenue structure, and intergovernmental relations. The course may include topics in development finance and debt management. *Prerequisite:* approval by the Center for Public Financial Management.

28.612 Managerial Microeconomics (3) Tools of economic analysis as applied to individuals and to businesses and other organizational economic entities. Fundamental concepts of resource allocation and income distribution are developed, with specific applications for policy issues, such as those relating to public sector growth, market structures, urban change, government regulation, and pricing and output behavior of the firm. *Prerequisite:* approval by the Center for Public Financial Management.

28.614 Human Behavior and Leadership for Public Managers (3) This course focuses on the leadership capabilities of each student, with emphasis on self-assessment of managerial competence and applications to organizational needs. Students explore subjects such as managerial and supervisory functions, motivation and job design, meetings and small-group behavior, interorganizational relationships, communications, and interpersonal effectiveness. *Prerequisite:* approval by the Center for Public Financial Management.

28.616 Quantitative Methods I (Probability and Statistics) (3) Introduction to basic mathematical and statistical methods used in the solution of managerial problems. Basic concepts of descriptive statistics and probability theory are developed, including such topics as distribution of measurements, measures of central tendency and variability, random variables, and probability distributions. Primary focus is on the statistical inference. Students are introduced to computer statistical packages. Specific applications are made to problems encountered in government. *Prerequisite:* approval by the Center for Public Financial Management.

28.617 Quantitative Methods II (Scientific Decision-Making) (3) Introduction to quantitative techniques useful to decision-makers in analyzing and solving business and government problems. These techniques include linear programming, forecasting, decision theory, inventory control, queuing theory, and simulation processes. Emphasis is on applying theory in solving practical problems. Use of the computer to assist in solving problems is emphasized. *Prerequisite:* approval by the Center for Public Financial Management.

28.618 Political Dynamics of Public Administration (3) Decision-making processes in governmental policy making. Relationships of national, state, and local governments. The interaction of politics and administration at all levels of government. Students trace political and administrative issues through the intergovernmental system with applications to their own organizations. *Prerequisite:* approval by the Center for Public Financial Management.

28.620 Public Program Evaluation (3) Techniques for evaluating the effectiveness of public programs. General criteria used to judge programs, including effectiveness, efficiency, responsiveness, and equity; trade-offs among criteria. Use of survey research, experiments, quasi experiments, and nonexperimental methods in the design of needs assessments and impact evaluations. Students apply tools of program evaluation in areas of their own organizations' interest. *Prerequisite:* approval by the Center for Public Financial Management.

28.621 Research Methods (3) Practical applications of scientific research principles and techniques. Analytical and logical methods are followed in characterizing research, selecting and developing a governmental research problem, designing the research strategy, researching documentary sources, and developing the outline. The objective is to develop an infrastructure for the research project and to choose from the methodologies of research most suited for individual students needs. *Prerequisites:* approval by the Center for Public Financial Management.

28.622 Project in Managerial Problem Solving (3) Designed to give students one-on-one supervision and guidance for completing their master's thesis project. Students are individually assigned to a faculty member appointed by the director in accord with their experitse and knowledge in a particular field. Upon completion and presentation of the project report, the faculty adviser submits a final grade for the course. Successful performance in practical financial management projects is an essential ingredient of the program and a major factor in obtaining the degree. *Prerequisite:* approval by the Center for Public for Financial Management.

28.623 Computer Applications for Public Managers (3) The relationship of computers to public administration functions. Emphasis on applications. Current and future computer technology and its effect on managers in the public sector. Privacy, security, human factors, resource management, budgeting and cost control, and computer-resource selection. *Prerequisite:* approval by the Center for Public Financial Management.

28.624 Procurement and Federal Assistance (3) This course covers the procurement and assistance processes as presently practiced by the federal government. It includes intergovernmental relationships and the statutory and procedural framework within which contracts, grants, and cooperative agreements are awarded, received, and administered. *Prerequisite:* approval by the Center for Public Financial Management.

28.690 Independent Study Project in Applied Public Financial Management (1–6)

History

Undergraduate Courses

29.100 Historians and the Living Past /A, S (3) What we believe happened in the past, whether true or not, has an influence on what we believe we see today and on what we decide to do in the future. The course explores how the past lives in the present, how we investigate the past, and the social and personal values of studying history. Usually offered every fall.

29.102 Classical Archaeology: History and Practice (3) A survey of the development of old-world archaeology from its

romantic past to a scientific discipline through an examination of the most important discoveries and modern techniques of excavation; the meaning, method, and fields of archaeological work are examined as a measure of human interest in the past. Offered only in Rome. Usually offered every term.

29.104 The Twentieth-Century World I /S (3) An introductory course, primarily for nonmajors or those with limited backgrounds in history. The main trends in world history, 1900–1945: imperialism, liberalism, communism, totalitarianism; the World Wars; the comparative political, economic, and social development of the United States, the West, and Asian and other non-Western societies. Usually offered every fall.

29.105 The Twentieth-Century World II /S (3) An introductory course, primarily for nonmajors or those with limited background in history. The main trends in world history since 1945: comparative development of liberal and communist societies; decline of imperialism; third-world nationalism; the Cold War and other international tensions; the growth of population and resource problems. Usually offered every spring.

29.106 Modern Europe I /A, S (3) Survey of the years 1500 to 1814. Revolutionary changes in Europe's place in the world, in beliefs about humanity and God, and in control over nature. The invention of the nation-state in the French Revolution and Napoleonic era. Usually offered every term.

29.107 Modern Europe II /A, S (3) Survey of the years from 1815 to the present. The world-wide consequences of nationalism combined with industrialization; the conflict between middle-class domination and awakening working-class consciousness; technology run wild; retreat from reason; and two world wars as the bases for understanding today's shrunken Europe and the warring in ex-colonial lands. Usually offered every term.

29.202 The Ancient World: Greece /A (3) From Minoan Crete through Alexander the Great. Literary and artistic masterpieces in their historical settings. Emphasis on ancient sources. Usually offered every fall.

29.203 The Ancient World: Rome /A (3) From the Etruscans through Constantine. The interplay of constitution and empire, and the changing views of ethical conduct. Emphasis on ancient sources. Usually offered every spring.

29.204 Medieval Europe (3) Exploration of the medieval world-view and consideration of the organization of economic and political institutions, the relationship of secular and ecclesiastical authority, and the creation of new social and religious ideals during the millenium that bridges antiquity and modernity.

29.205 The Italian Renaissance (3) A survey of Renaissance culture and history. Relations between Italian city-states, the rebirth of classical humanism, the role of the Church and the papacy, the growth of economic institutions, urban development, and political philosophy. Offered only in Rome. Usually offered every term.

29.207 History of the United States I /A, S (3) American history from the founding of the colonies to the Civil War. Includes social and intellectual as well as political history: the development of stable institutions and the forces of division and instability. Usually offered every term.

29.208 History of the United States II /A, S (3) American history from the end of the Civil War to the present. Modernization of America and resulting problems. Growth of U.S. power in international affairs. Roots and development of social and political change in America. Usually offered every term.

29.209 Women in Twentieth-Century America (3) Change and continuity in the recent experience of American women. The women's suffrage movement; the demise of feminism in the 1920s; the women's liberation movement; male liberation; women in the economy and politics; sexual attitudes, practices, and roles; and family life.

29.210 Ethnic Experience in America /A (3) An examination of ethnicity in American society, including the debate over whether the United States is an ethnic melting pot or an arena of conflict between diverse racial and religious groups. Issues include immigration, theories of assimilation, the development of ghettoes, and the persistence of ethnic consciousness.

29.214 American Cultural History (3) The major trends in American cultural history from the seventeenth century to the present, touching on representative figures in literature, art, music, and material culture as well as some major interpretations of American cultural history, such as those of Alexis de Tocqueville, Thorstein Veblen, and David Potter. Slide presentations, films, and field trips around Washington are included.

29.215 Social Forces That Shaped America (3) Values, institutions, movements, and processes fundamental to the historical development of American society. Usually focuses on class, race, gender, and ethnicity.

29.221 History of England I (3) Political, social, and cultural development in England to 1689. Parliament, common law, civil war, plague, rebellion, concepts of kingship, and the conflict of church and state. Usually offered every fall.

29.222 History of England II (3) Great Britain since 1689. The rise and fall of the British Empire, cabinet government and limited monarchy, working-class politics and the welfare state, industrialization, and mass culture. Usually offered every spring.

29.230 Early Russian History, 988-1700 (3) The first state, Kiev Rus, the impact of the Tatar Yoke, and the emergence of Muscovite Russia. Topics include the growth of Tsarist autocracy, the enserfment of the peasantry, the role of the Russian Orthodox church, and Russia's relations with the West.

29.231 Imperial Russia 1700–1917 (3) Survey of Imperial Russian history with emphasis on the Romanov Tsars, peasantry, growth of industry, cultural developments, emergence of the revolutionary movements, expansion of the state, and foreign policy.

29.232 Soviet Union, 1917 to Present /A (3) The Tsarist heritage, Russian Marxism, the revolutions of 1917, the civil war, the New Economic Policy, rise of Stalin, the industrialization and collectivization of the 1930s, the Second Patriotic War, death of Stalin, the Khrushchev era, the Brezhnev regime, and Soviet culture. Usually offered every term.

29.238 France since Napoleon (3) Amid recurring revolutions and military disasters, France has struggled to find a

stable form of government. The course investigates political experimentation, social conservatism, and cultural innovation in France since 1815. Topics include the legacy of the French Revolution, the expansion of Paris, colonial empire, Nazi occupation, and De Gaulle's leadership.

29.239 Modern Germany since 1848 (3) The revolutions of 1848 failed to unify Germany. Bismarck and the Prussian army succeeded. The new Germany produced Prussian militarism, socialism, youth movements, and the unsuccessful Weimar Republic. Hitler's Germany; World War II; Germany divided. Usually offered alternate years.

29.241 Colonial Latin America (3) Conquest and change in Indian civilization; imperial politics; race and class; Indian labor and the Black legend; imperial economic relations; imperial reform and revolution. Usually offered every fall.

29.242 Latin America since Independence (3) Problems in creating nations; militarism, dictatorship, and democracy; sources of underdevelopment; reform and revolution in the twentieth century. Usually offered every spring.

29.250 Modern Asia (3) History and culture of the great Asian civilizations during the past two centuries. Asian societies at the time of the advent of the West; cultural and social change; the rise of Asian nationalism; and recent revolutions, politics, and international relations.

29.260 "Arms and the Man": Aspects of War in History (3) The roots of war. The relationships between war and peace. The experience of war. The justifications for war. Alternatives to war. The future of war.

29.261 The Work of Peace in American History (3) How is peace between nations attained? Through case studies in United States history, broad historical forces, the quiet work of diplomacy, and the pressures of popular activism are explored as causes of peace. Attention is given to peaces, gained and lost; and to crises resolved short of war.

29.270 How to Think: Critical Analysis in the Social Sciences (3) The basic conceptual tools necessary for mastering a discipline or thinking for oneself. How to analyze a book or article. How to frame questions. How to prove something.

29.280 Cities: Cradles of Civilization (3) Urban development from Ur to the present. Emphasis on physical planning, the city as a creative environment, economic development, and the city's role in history.

29.281 The Rise of the American City (3) The American city's physical and political development from the seventeenth century frontier to the present. Its role in the formation of our society, culture, and economy, with special emphasis on American attitudes towards the city as reflected in housing policy, suburbanization, and in literature, film, and city-planning policy.

29.300 Ancient Studies (3) Topical courses in ancient history: Greece in the age of Tyrants; Classical Greece; Ancient Sparta; Alexander the Great; the Burden of Success—the Failure of the Roman Republic; Principate to Patriarchy—the Roman Empire; Causes of War in Antiquity; Major Personalities of Classical Antiquity; Silent Peoples of Antiquity—Women, Children, and Slaves. May be repeated for credit in the same term; topic must be different.

29.314 Eastern Europe since 1815 (3) The effects of nationalism, the fate of the peasantry, ethnic hostilities, World War I, the emergence of nation-states, and the Soviet domination of Eastern Europe. Usually offered alternate years.

29.317 Weimar Germany (3) This is the Germany described in the movie *Cabaret*. Cultural and political themes are stressed. Thomas Mann, Bertolt Brecht, Marlene Dietrich, Rosa Luxemburg, General Hindenburg, and Adolf Hitler are among the major figures. Expressionism, communism, and fascism confront the republican establishment.

29.318 Nazi Germany (3) The political, social, and economic conditions that made it possible for Hitler to take power. The nature of Nazi rule. World War II from the Nazi side and the Holocaust from that of the Jews. Usually offered every spring.

29.320 War and Diplomacy: Napoleon to World War I (3) The course describes and interprets Napoleonic wars and diplomacy; the Congress of Vienna; the Concert of Europe; the revolutions of 1820, 1830, and 1848; the Crimean War; the conflicts of Italian and German nationalism; Bismark's diplomatic system; imperialism; the partition of Africa; rivalries in Asia; Balkan conflicts; and the making of World War I.

29.321 War and Peace, 1914–1945 (3) The two world wars and their backgrounds of revolution and depression are focal points for explaining the origins of wars and the failure of peace in modern civilizations. Specific topics include World War I; peace-making at Versailles; the Great Depression; the rise of the Nazis, Fascists, and Communist Russia—and their foreign policies; the German blitzkrieg in World War II; subsequent allied victories; and attempts to create a "brave new world."

29.326 European Society in the Nineteenth and Twentieth Centuries (3) Relationships between traditional social groups and the emergence of new classes, cultural patterns, and aspirations. The effect of altered birth and death rates, urbanization, technology, education, and other forces stimulating change. New grievances, mass culture, and the growth of alienation. Interest groups, the consumer society, and the "New Europe."

29.327 Twentieth-Century Europe (3) In this century Europe has experienced two major wars, a wave of communist revolution, a violent reaction in the form of fascism, and the horror of mass extermination. Yet Europe today is quite prosperous, and there are better links between the Western countries and their communist counterparts than could be imagined two decades ago. There is something in Europe's past that gives it a certain resilience.

29.329 European Thought and Ideology (3) Rotating topical and chronological studies. Examples are European Communism and European Liberalism.

29.331 Modern Revolutions /S (3) The theory, patterns, and practice of twentieth-century revolutions, and the revolutionary tradition stemming from the Enlightenment, French Revolution, and Marxism. Detailed treatment of the Russian, Nazi, Chinese, Vietnamese, and Cuban revolutions, and consideration of the effect of revolutions and the revolutionary potential of modern industrial societies.

29.332 Contemporary Historical Studies /S (3) Rotating topics, including Democracy and Totalitarianism; Imperialism, Racism, and the Third World; Psychohistory; Political Assassinations in Europe; Death in History; Madness in His-

tory; History of Sexuality; Women in European History. May be repeated for credit in the same term; topic must be different.

29.333 Tudor-Stuart England (3) England in the sixteenth and seventeenth centuries. Topics include the Protestant Reformation in England, the conflict between King and Parliament, the Civil War, Puritanism, and the Glorious Revolution.

29.334 Victorian England (3) Examines the many threats to traditional beliefs and social patterns that emerged in the nineteenth century. Subjects include the effect of Darwinism on religion, the emergence of working-class politics, the campaign for female suffrage, discontent in Ireland, and the growth of empire.

29.335 Twentieth-Century England (3) Has England become a third-rate power? The course analyzes England's changing status in the twentieth century: the rise of the Labour Party, the depression, World War II, loss of empire, and contemporary British culture.

29.336 History of Ireland (3) Survey of Irish history from the Gaelic invasions to the present, focusing on the development of Irish cultural and national identity.

29.337 British Studies (3) Rotating topics, including Hanoverian England, Edwardian England, the British Working-Class Experience, Popular Culture in Modern Britain, and Popular Rebels in Britain. May be repeated for credit in the same term; topic must be different.

29.340 Latin American Studies (3) Rotating topics, including Diplomatic History of Latin America, Twentieth-Century Diplomacy of the Great Powers of Latin America, and Latin American Intellectual History. May be repeated for credit in the same term; topic must be different.

29.345 Russian Studies (3) Rotating topics, including Russian Social History; Russian Revolutionary Tradition; USSR: Dissidents and Dictators; Russia and the West, 1472–1900; Russia in War and Revolution, 1855–1917; Twentieth-Century Russian Diplomacy; Lord and Peasant; and Nineteenth-Century Russian Literature and Society. May be repeated for credit in the same term; topic must be different.

29.347 Asian Studies (3) Topical courses in Asian history: China: from the Manchus to Mao; History of Japan; and India and the West. May be repeated for credit in the same term; topic must be different.

29.350 Colonial America (3) 1492 to 1763. The founding and development of England's North American colonies, emphasizing the original impulses and methods of colonization; Indian peoples and conflict; non-English immigration; the genesis and African background of the slave trade and slavery; and the creation of a dominant English culture in an ethnically and racially diverse society.

29.351 Era of the American Revolution (3) The political and social history of the American Revolution, emphasizing such topics as the genesis of the revolutionary conflict, the revolution as a "republican revolution," the revolution's ideological and social results and their effect abroad, and the formation of the Constitution as the revolution's finest transforming accomplishment.

29.352 The Era of the New Republic, 1789–1850 (3) The new republic's political consolidation during its first critical decades; its physical, economic, and political transformation by continental expansion; the transportation and industrial revolutions and the creation of a mass democracy; and the first confrontations over slavery in 1832–33 and 1848–50.

29.353 Civil War and Reconstruction (3) Chronological coverage from the Compromise of 1850 to the final withdrawal of federal troops from the South in 1877. Topics include antebellum reform, sectional conflict, black slavery, secession, and postwar racial and political problems. Political and social issues are emphasized, rather than a narrative of battles and skirmishes. Usually offered alternate falls.

29.354 The South since Reconstruction (3) The theme is the South's struggle with the issues of integration, separation, and self-definition since the Civil War. Reconstruction and redemption, race relations, violence, the rise and fall of the "Solid South," and the "New South" of Jimmy Carter. Usually offered alternate springs.

29.355 Emergence of Modern America, 1877–1920 (3) The course considers themes in the modernization of America: the rise of corporations and cities, the influx of immigrants from southern and eastern Europe, and the advent of the new diplomacy and imperialism. Populism and progressivism.

29.356 Twentieth-Century America /A (3) Life in the twentieth century is different from all other periods of our past. To understand why requires an examination of the explosion of science and technology, the growth of government, America's increasing involvement in the world, the multiplication of protest and liberation movements, the new politics, and neo-Keynesian economics.

29.357 America between the Wars, 1919–1941 (3) Following a decade of stability and prosperity, the dislocations caused by the Great Depression disrupted the lives and shook the institutions of the American people, leading to unprecedented political and cultural experimentation. Emphasizing both the contrasts and continuities between the 1920s and 1930s, the course investigates the patterns of political, social, cultural, economic, and intellectual life during the interwar period, with special emphasis on the tensions between radical and conservative tendencies.

29.361 World War II: The Global Experience (3) World War II examined from a global perspective. Attention is given to leaders; Allied and Axis war strategies, battles, and tactics; the occupation policies of Nazi Germany and Japan; economic warfare; innovations in weaponry; the impact of the war on imperialism, nationalism, and communism; and the allied diplomacy that shaped the post-war world.

29.362 World War II: The American Experience (3) How the United States got into World War II; its diplomatic strategy and decisions. United States military efforts and leadership. The experience of G.I. Joe. Society and politics at home. The end of the war and the approach of the Cold War. Films, television, tapes, and guest speakers. Usually offered alternate years.

29.363 Other Wars: Cold, Korean, and Vietnam (3) Origins and development of the Cold War. Revolution of American diplomacy in the Truman administration (Truman Doctrine, Marshall Plan, and NATO). Korean War. Cuban missile crisis. The Vietnam war. Diplomacy, military history, and strategy; dissent; and the Cold War's impact on society at large. Visual media and guest speakers. Usually offered alternate years.

29.364 Twentieth-Century United States Response to Revolution (3) Every twentieth-century President has been compelled to respond to a modern revolutionary movement. This course focuses on American foreign policy in a revolutionary world, including consideration of the perception of revolution in Washington; revolutions in Mexico, Russia, China, Cuba, and Iran; and "Wars of National Liberation."

29.366 Presidents of the United States I (3) American presidents from Washington through Andrew Johnson. The course concentrates on how major and minor presidents have used presidential power to deal with national problems; how they conceived of the presidency; and the roles of personality, political values, and constitutional and political constraints. Usually offered every fall.

29.367 Presidents of the United States II (3) American Presidents from Andrew Johnson to Ronald Reagan. The course concentrates on how modern Presidents have used the power of the Presidency to deal with national problems, the rise of the imperial Presidency, congressional resurgence, and the major Presidents of the twentieth century. Usually offered every spring.

29.368 Great Ideas in American History: American Thought from Puritanism to the Counter-Culture (3) The course examines the works of great American thinkers from the seventeenth century to the present, including Roger Williams, Jonathan Edwards, Jefferson, John C. Calhoun, Thoreau, Melville, Sumner, Henry Adams, William James, B.F. Skinner, and Lewis Mumford. They are placed in their philosophical, religious, and cultural contexts.

29.370 Quantification in History (3) An exploration of the application of statistical procedures as they affect historical research. Includes both theory and historical examples. No mathematical or statistical experience required.

29.371 Ideology, Culture, and American Politics (3) How have American political leaders justified their objectives? How have popular beliefs and attitudes been reflected in the American political system? This course, concentrating on the twentieth century, explores the relationship between American political life on the one hand and ideas and popular persuasions on the other.

29.374 Labor and Business in United States History (3) This course focuses on the history of work over the last 200 years. Topics include the rise of the modern corporation, technology, and the workplace; the changing "work ethic"; labor unions and labor politics; and industrial relations in the post-industrial economy.

29.375 The Radical Tradition in the United States (3) The history of the left and radical social movements of workers, farmers, women, and blacks since the 1770s.

29.377 Public Policy in United States History (3) This course reappraises the history of public policy and its effect on the development of modern America from the early nineteenth century to the present, focusing on the government's role in continental expansion; in business and labor policies; in the Progressive Era; in response to the Great Depression; and in the assumption of international obligations.

29.384 Historical Editing (3) The course begins with the history of documentary editing and then gives the student experience in authentication and selection, annotation, and the presentation of historical documents. The student locates a collection of manuscripts, and makes a selection to produce a publishable mini-edition.

29.390 Independent Reading Course in History (1–6)

29.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication.

29.480 Major Seminar I (3) Methods and materials of historical research and writing, with emphasis on resources in the Washington area. Students design and outline research topics based in part on the use of primary sources. Required of all history majors. Normally followed by 29.481. Offered every fall. *Prerequisite:* senior or second-semester junior standing.

29.481 Major Seminar II (3) Completion of a substantial research paper based in part on the use of primary source materials. Required of all history majors. Offered every spring. *Prerequisite:* senior standing and 29.480.

29.490 Independent Study Project in History (1–6)

29.491 Internship (1–6) Usually offered every term.

Graduate and Advanced Undergraduate Courses

29.500 Studies in History (3) Rotating topics, including Twentieth-Century European Studies, Nineteenth-and Twentieth-Century Russian and Soviet Studies, English and British Studies, Ancient Studies, American Political Studies, American Social Studies, American Cultural Studies, American Diplomatic Studies, and American Military Studies. *Prerequisite:* advanced undergraduate or graduate standing.

29.590 Independent Reading Course in History (1–6)

Graduate Courses

Note: Courses numbered 29.600 through 29.684 generally meet with courses at the 300 level. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

29.600 Ancient Studies (3) Topical courses in ancient history: Greece in the Age of Tyrants; Classical Greece; Ancient Sparta; Alexander the Great; the Burden of Success—the Failure of the Roman Republic; Principate to Patriarchy—the Roman Empire; Causes of War in Antiquity; Major Personalities of Classical Antiquity; Silent Peoples of Antiquity—Women, Children, and Slaves. May be repeated for credit in the same term; topic must be different.

29.614 Eastern Europe since 1815 (3) The effects of nationalism, the fate of the peasantry, ethnic hostilities, World War I, the emergence of nation-states, and the Soviet domination of Eastern Europe. Usually offered alternate years.

29.617 Weimar Germany (3) This is the Germany described in the movie *Cabaret*. Cultural and political themes are stressed. Thomas Mann, Bertolt Brecht, Marlene Dietrich, Rosa Luxemburg, General Hindenburg, and Adolf Hitler are among the major figures. Expressionism, communism, and fascism confront the republican establishment.

29.618 Nazi Germany (3) The political, social, and economic conditions that made it possible for Hitler to take power.

The nature of Nazi rule. World War II from the Nazi side and the Holocaust from that of the Jews. Usually offered every spring.

29.620 War and Diplomacy: Napoleon to World War I (3) The course describes and interprets Napoleonic wars and diplomacy; the Congress of Vienna; the Concert of Europe; the revolutions of 1820, 1830, and 1848; the Crimean War; the conflicts of Italian and German nationalism; Bismark's diplomatic system; imperialism; the partition of Africa; rivalries in Asia; Balkan conflicts; and the making of World War I.

29.621 War and Peace, 1914–1945 (3) The two world wars and their backgrounds of revolution and depression are focal points for explaining the origins of wars and the failure of peace in modern civilizations. Specific topics include World War I; peace-making at Versailles; the Great Depression; the rise of the Nazis, Fascists, and Communist Russia—and their foreign policies; the German blitzkrieg in World War II; subsequent allied victories; and attempts to create a "brave new world."

29.626 European Society in the Nineteenth and Twentieth Centuries (3) Relationships between traditional social groups and the emergence of new classes, cultural patterns, and aspirations. The effect of altered birth and death rates, urbanization, technology, education, and other forces stimulating change. New grievances, mass culture, and the growth of alienation. Interest groups, the consumer society, and the "new Europe."

29.627 Twentieth-Century Europe (3) In this century Europe has experienced two major wars, a wave of communist revolution, a violent reaction in the form of fascism, and the horror of mass extermination. Yet Europe today is quite prosperous, and there are better links between the Western countries and their communist counterparts than could be imagined two decades ago. There is something in Europe's past that gives it a certain resilience.

29.629 European Thought and Ideology (3) Rotating topical and chronological studies. Examples are European Communism and European Liberalism.

29.631 Modern Revolutions (3) The theory, patterns, and practice of twentieth-century revolutions, and the revolutionary tradition stemming from the Enlightenment, French Revolution, and Marxism. Detailed treatment of the Russian, Nazi, Chinese, Vietnamese, and Cuban revolutions, and consideration of the effect of revolutions and the revolutionary potential of modern industrial societies.

29.632 Contemporary Historical Studies (3) Rotating topics, including Democracy and Totalitarianism; Imperialism, Racism, and the Third World; Psychohistory; Political Assassinations in Europe; Death in History; Madness in History; History of Sexuality; Women in European History. May be repeated for credit in the same term; topic must be different.

29.633 Tudor-Stuart England (3) England in the sixteenth and seventeenth centuries. Topics include the Protestant Reformation in England, the conflict between King and Parliament, the Civil War, Puritanism, and the Glorious Revolution.

29.634 Victorian England (3) Examines the many threats to traditional beliefs and social patterns that emerged in the nineteenth century. Subjects include the effect of Darwinism on religion, the emergence of working-class politics, the campaign for female suffrage, discontent in Ireland, and the growth of empire.

29.635 Twentieth-Century England (3) Has England become a third-rate power? The course analyzes England's changing status in the twentieth century: the rise of the Labour Party, the depression, World War II, loss of empire, and contemporary British culture.

29.636 History of Ireland (3) Survey of Irish history from the Gaelic invasions to the present, focusing on the development of Irish cultural and national identity.

29.637 British Studies (3) Rotating topics, including Hanoverian England, Edwardian England, the British Working-Class Experience, Popular Culture in Modern Britain, and Popular Rebels in Britain. May be repeated for credit in the same term; topic must be different.

29.640 Latin American Studies (3) Rotating topics, including Diplomatic History of Latin America, Twentieth-Century Diplomacy of the Great Powers of Latin America, and Latin American Intellectual History. May be repeated for credit in the same term; topic must be different.

29.645 Russian Studies (3) Rotating topics, including Russian Social History; Russian Revolutionary Tradition; USSR: Dissidents and Dictators; Russia and the West, 1472–1900; Russia in War and Revolution, 1855–1917; Twentieth-Century Russian Diplomacy; Lord and Peasant; and Nineteenth-Century Russian Literature and Society. May be repeated for credit in the same term; topic must be different.

29.647 Asian Studies (3) Topical courses in Asian history: China: from the Manchus to Mao; History of Japan; and India and the West. May be repeated for credit in the same term; topic must be different.

29.650 Colonial America (3) 1492 to 1763. The founding and development of England's North American colonies, emphasizing the original impulses and methods of colonization; Indian peoples and conflict; non-English immigration; the genesis and African background of the slave trade and slavery; and the creation of a dominant English culture in an ethnically and racially diverse society.

29.651 Era of the American Revolution (3) The political and social history of the American Revolution, emphasizing such topics as the genesis of the revolutionary conflict, the revolution as a "republican revolution," the revolution's ideological and social results and their effect abroad, and the formation of the Constitution as the revolution's finest transforming accomplishment.

29.652 The Era of the New Republic, 1789–1850 (3) The new republic's political consolidation during its first critical decades; its physical, economic, and political transformation by continental expansion; the transportation and industrial revolutions and the creation of a mass democracy; and the first confrontations over slavery in 1832–33 and 1848–50.

29.653 Civil War and Reconstruction (3) Chronological coverage from the Compromise of 1850 to the final withdrawal of federal troops from the South in 1877. Topics include antebellum reform, sectional conflict, black slavery, secession, and postwar racial and political problems. Political and social issues are emphasized, rather than a narrative of battles and skirmishes. Usually offered alternate falls.

29.654 The South since Reconstruction (3) The theme is the South's struggle with the issues of integration, separa-

tion, and self-definition since the Civil War. Reconstruction and redemption, race relations, violence, the rise and fall of the "Solid South," and the "New South" of Jimmy Carter. Usually offered alternate springs.

29.655 Emergence of Modern America, 1877–1920 (3) The course considers themes in the modernization of America: the rise of corporations and cities, the influx of immigrants from southern and eastern Europe, and the advent of the new diplomacy and imperialism. Populism and progressivism.

29.656 Twentieth-Century America (3) Life in the twentieth century is different from all other periods of our past. To understand why requires an examination of the explosion of science and technology, the growth of government, America's increasing involvement in the world, the multiplication of protest and liberation movements, the new politics, and neo-Keynesian economics.

29.657 America between the Wars, 1919–1941 (3) Following a decade of stability and prosperity, the dislocations caused by the Great Depression disrupted the lives and shook the institutions of the American people, leading to unprecedented political and cultural experimentation. Emphasizing both the contrasts and continuities between the 1920s and 1930s, the course investigates the patterns of political, social, cultural, economic, and intellectual life during the interwar period, with special emphasis on the tensions between radical and conservative tendencies.

29.661 World War II: The Global Experience (3) World War II examined from a global perspective. Attention is given to leaders; Allied and Axis war strategies, battles, and tactics; the occupation policies of Nazi Germany and Japan; economic warfare; innovations in weaponry; the impact of the war on imperialism, nationalism, and communism; and the allied diplomacy that shaped the post-war world.

29.662 World War II: The American Experience (3) How the United States got into World War II; its diplomatic strategy and decisions. United States military efforts and leadership. The experience of G.I. Joe. Society and politics at home. The end of the war and the approach of the Cold War. Films, television, tapes, and guest speakers. Usually offered alternate years.

29.663 Other Wars: Cold, Korean, and Vietnam (3) Origins and development of the Cold War. Revolution of American diplomacy in the Truman administration (Truman Doctrine, Marshall Plan, and NATO). Korean War. Cuban missile crisis. The Vietnam war. Diplomacy, military history, and strategy; dissent; and the Cold War's impact on society at large. Visual media and guest speakers. Usually offered alternate years.

29.664 Twentieth-Century United States Response to Revolution (3) Every twentieth-century President has been compelled to respond to a modern revolutionary movement. This course focuses on American foreign policy in a revolutionary world, including consideration of the perception of revolution in Washington; revolutions in Mexico, Russia, China, Cuba, and Iran; and "Wars of National Liberation."

29.666 Presidents of the United States I (3) American presidents from Washington through Andrew Johnson. The course concentrates on how major and minor presidents have used presidential power to deal with national problems; how they conceived of the presidency; and the roles of personality, political values, and constitutional and political constraints. Usually offered every fall.

29.667 Presidents of the United States II (3) American Presidents from Andrew Johnson to Ronald Reagan. The course concentrates on how modern Presidents have used the power of the Presidency to deal with national problems, the rise of the imperial Presidency, congressional resurgence, and the major Presidents of the twentieth century. Usually offered every spring.

29.668 Great Ideas in American History: American Thought from Puritanism to the Counter-Culture (3) The course examines the works of great American thinkers from the seventeenth century to the present, including Roger Williams, Jonathan Edwards, Jefferson, John C. Calhoun, Thoreau, Melville, Sumner, Henry Adams, William James, B.F. Skinner, and Lewis Mumford. They are placed in their philosophical, religious, and cultural contexts.

29.670 Quantification in History (3) An exploration of the application of statistical procedures as they affect historical research. Includes both theory and historical examples. No mathematical or statistical experience required.

29.671 Ideology, Culture, and American Politics (3) How have American political leaders justified their objectives? How have popular beliefs and attitudes been reflected in the American political system? This course, concentrating on the twentieth century, explores the relationship between American political life on the one hand and ideas and popular persuasions on the other. *Prerequisite:* graduate standing.

29.674 Labor and Business in United States History (3) This course focuses on the history of work over the last 200 years. Topics include the rise of the modern corporation, technology, and the workplace; the changing "work ethic"; labor unions and labor politics; and industrial relations in the post-industrial economy. *Prerequisite:* graduate standing.

29.675 The Radical Tradition in the United States (3) The history of the left and radical social movements of workers, farmers, women, and blacks since the 1770s. *Prerequisite:* graduate standing.

29.677 Public Policy in United States History (3) This course reappraises the history of public policy and its effect on the development of modern America from the early nineteenth century to the present, focusing on the government's role in continental expansion; in business and labor policies; in the Progressive Era; in response to the Great Depression; and in the assumption of international obligations.

29.684 Historical Editing (3) The course begins with the history of documentary editing and then gives the student experience in authentication and selection, annotation, and the presentation of historical documents. The student locates a collection of manuscripts, and makes a selection to produce a publishable mini-edition.

29.690 Independent Study Project in History (1–6)

29.691 Internship (1–6) Usually offered every term.

29.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

29.720 Colloquium in Modern European History, 1815–1945 (3) This colloquium deals with major issues in Europe-

an history from 1815 to 1945. It assumes some familiarity with the basic events and histographical depth on issues such as the formation of mass political parties, imperialism, socialism, fascism, and World War II. Usually offered every fall.

29.727 Colloquium in United States History I: to 1865 (3) The course assumes the student's familiarity with factual data and concentrates on analyzing important historiographical disputes and developments in U.S. history to the end of the Civil War. Usually offered alternate falls.

29.728 Colloquium in United States History II: since 1865 (3) The course assumes the student's familiarity with factual data and concentrates on analyzing important historiographical disputes and developments in U.S. history from 1865 to the present. Usually offered alternate falls.

29.751 Research Seminar in European History (3) Identification and development of research topics. Sources and their evaluation. Research techniques and problems. Writing and argumentation. Students research and write substantial papers based largely on primary sources. Some Ph.D. candidates use the course to develop dissertation proposals. Usually offered every spring.

29.752 Research Seminar in United States History (3) Identification and development of research topics. Sources and their evaluation. Research techniques and problems. Writing and argumentation. Students research and write substantial papers based largely on primary sources. Some Ph.D. candidates use the course to develop dissertation proposals. Usually offered every spring.

29.797 Master's Thesis Seminar (1–6) Usually offered every term.

29.799 Doctoral Dissertation Seminar (1–12) Usually offered every term.

International Service

Undergraduate Courses

33.100 Political Concepts (3) Interaction of normative and empirical theory. Such concepts as politics, power, authority, legitimacy, the state, nationalism, and conflict, and their applicability to international and comparative politics and policy analysis. Usually offered every term.

33.151 Western Tradition I (3) Origins in Judaism, Greek philosophy, and Roman law and administration. Phenomenon of growth and stagnation in classical, Islamic, and medieval Christian civilization. Millennialism and change. Usually offered every fall.

33.152 Western Tradition II (3) Crisis of religious man, birth of scientific civilization, rationalism, secularization, romantic reaction, and the roots of totalitarianism of the left and right. Usually offered every spring.

33.161 Civilizations of Asia I (3) Comparative study of the major historical, political, and cultural traditions of Chinese, Japanese, Indian, and Southeast Asian peoples from the earliest times until the coming of the European. Usually offered every fall.

33.162 Civilizations of Asia II /A (3) Cultural, economic, and political change experienced by the peoples of China, Japan, India, and Southeast Asia during and after the period of European colonialism. Usually offered every spring.

33.164 Islamic Civilization /A (3) The origins and character of classical Islamic civilization and the dynamics of modernization in the Islamic societies of the Middle East. Usually offered every term.

33.165 Civilizations of Africa /A (3) Comparative study of the major historic, political, and cultural traditions of Africa south of the Sahara. Usually offered every term.

33.202 World Politics /S (3) International relations as a specific process. Examines conflict and cooperation in international relations by analyzing diplomacy, alliances, international law and organization, and other forms of interaction. Usually offered every term.

33.258 Contemporary Russia /S (3) Russia's contemporary political culture and its historical, economic, geographic, and social roots. Usually offered every spring.

33.259 Contemporary East Europe (3) A systematic examination of contemporary East Europe as a whole and of the individual communist countries: Albania, Bulgaria, Czechoslovakia, East Germany, Hungary, Poland, Romania, and Yugoslavia. Emphasis on major similarities and contrasts of political cultures. Usually offered every spring.

33.264 Contemporary Middle East /S (3) The Middle East's contemporary political culture and its historical, economic, geographic, and social roots, with special attention to the Arab world. Usually offered every fall.

33.265 Contemporary Africa /S (3) Africa's contemporary political culture and its historical, economic, geographic, and social roots, with special attention to Africa south of the Sahara. Usually offered every term.

33.276 Contemporary Latin America /S (3) Major political, social, and economic change in Latin America, its foundations, factors accelerating and impeding it, and prospects and trends. Usually offered every term.

33.280 Policy Analysis (3) Public policy formation and implementation. Emphasis on analysis, evaluation, and forecasting in such areas as diplomacy, security, welfare, health, education, environment, and finance. Major focus is on the United States with some comparison. Usually offered every fall.

33.301 Theories of International Politics (3) Major trends in recent thought, including systematic and behavioral modes of analysis. Problems of explanation and theory building in social sciences with special reference to international studies. Usually offered every fall.

33.307 Quantitative Approaches to International Politics (3) Introduction to quantitative measurement and statistical analysis in international relations research. Usually offered every term.

Note Also: See courses in international economics and diplomatic history listed under the departments of economics and history in this publication.

33.321 International Law (3) Institutions of international politics, with emphasis on the nature and function of international law. Usually offered every term.

33.325 International Organization (3) Institutions of international politics, with emphasis on the nature and functions of international organization. Usually offered every term.

33.337 International Development /S (3) Alternative theories and definitions of development, as expressed in the major international, bilateral, and private institutions (aid agencies, the United Nations agencies, cartels, and multinational organizations) concerned with the transfer of resources between rich and poor nations. Includes a weekly two-hour lab. Usually offered every fall. *Prerequisite:* one course in economics.

33.340 Foundations of International Communication (3) The sociology, psychology, and anthropology relevant to the transmission of ideas, perceptions, and feelings between and within cultures. Communications models, perception theories, cultural contact, technological change, public opinion, propaganda, and logic systems. Usually offered every fall.

33.349 Selected Topics in International Communication (3) Cross-cultural problems of communication, research techniques in international communications, and the role of the media in cross-cultural communication. May be repeated for credit in the same term; topic must be different. *Prerequisite:* 33.340.

33.351 Culture and Society: Marx to Weber /A (3) Begins with Hegel and Marx and ends with the sociopolitical alterations after 1880, reflected in the sociology of Max Weber. Emphasis also includes Spencer, Comte, J. S. Mill, Gumplowicz, Gabriel Tarde, and Durkheim, positivism, neo-Kantianism, and early Marxist-Leninism, particularly materialism and empirio-criticism. Contrapuntal themes: naturalism, impressionism, and German expressionism and Italian futurism. Usually offered every fall. *Prerequisite:* courses in sociology, literature, and philosophy are desirable.

33.352 Culture and Society: Freud to Sartre /A (3) The beginnings of psychoanalysis: Nietzsche and antirationalism; Sorel and myth; the role of models, fictions, and ideal types. The shift from liberal to antiliberal political systems: Soviet Russia and the arts; dadaism and surrealism. Spengler and metahistory; intellectuals and communism; the varieties of fascism. The generation of the absurd: Camus and Sartre. The phenomenon of National Socialism and its relation to cultural derangement. Usually offered every spring. *Prerequisite:* courses in philosophy, sociology, and European history are desirable.

33.355 The Relations of West European Nations /S (3) World War II diplomacy as it affected Europe's postwar position, and the origins and development of the cold war in Europe. French and West German foreign policy and East-West diplomacy relating to Germany from World War II to the present; European unity with emphasis on the European Community; U.S.-European relations and issues of European security. Usually offered every spring.

33.359 Soviet Union in World Affairs (3) Analysis of recent interstate relations in the zone of Soviet influence and the place of the USSR in world affairs. Usually offered every spring.

33.364 Modern Islam (3) The 19th-century Islamic reform movements in the Middle East and North Africa and the 20th-century neofundamentalist militant movements. The conflict between these movements and the forms of secular nationalism that developed during the same period. The impact of the Islamic movements on societies oriented toward Westernization and nationalism. Usually offered every spring. *Prerequisite:* 33.164.

33.366 Asian Power Rivalries (3) International politics from Asian perspectives, with particular attention to complex relationships between China, the Soviet Union, India, and Japan. Usually offered every fall.

33.381 Foreign Policies of the Great Powers /S (3) Analysis of the historical evolution and contemporary development of the foreign policies of the United States and the Soviet Union, including the role of China in the foreign policy of each. Emphasis is on the interaction of the policies and behavior of the major powers. Usually offered every fall.

33.382 The Analysis of United States Foreign Policy /S (3) Approaches to the study of American foreign policy processes and decision making; the role of the president, the bureaucracy, the Congress, and public opinion. Applications of US-USSR relations. Usually offered every term.

33.384 American Defense and Security Policy (3) United States national security policy formulation, including organizational politics, NSC systems, state and defense departments, the intelligence community, defense budgeting, weapons acquisition, and executive-legislative relations. Usually offered every fall.

33.385 United States Foreign Economic Policy /S (3) Major factors and issues in U.S. international economic relations in terms of trade-offs between political and economic priorities; emphasis on U.S. international trade, finance, development, energy, and investment policies. Usually offered every term. *Prerequisite:* 19.101 and 19.102.

33.386 Comparative Foreign Policy (3) Policy formation and implementation of selected nation-states. Analysis of the effect of foreign policies of selected countries on development, international stability, and environment. Usually offered every spring.

33.389 Selected Topics in Policy Analysis (3) Analysis of topics in public policy, with special attention to diplomatic, security, economic, or environmental policies. May be repeated for credit in the same term; topic must be different. Usually offered every term.

33.390 Independent Reading Course in International Studies (1–6)

33.391 Internship in International Affairs (1–12) Direct involvement in policy making through participation in a government agency or nongovernmental organization. Credit varies depending on the nature of internship and the number of hours involved. Usually offered every term. *Prerequisite:* permission of coordinator of internships.

33.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication.

33.431 An Overview of the European Community (3) The road to European unity; basic treaties; composition, role, and competence of the commission; current policies; and the business environment. Emphasis on topics of lectures scheduled for subsequent European Community Institute in Europe. May be taken separately from the three-course series. Usually offered every summer. Usually offered every summer. Meets with 33.631. *Prerequisite:* approval by the dean of the School of International Service.

33.432 The European Community Institute in Europe (6) The second of a three-course series on the history, development, organization, policies, practices, and future trends of the European Community examined in the larger framework of international business. On-site lectures, interviews, conferences, visits, and readings in various cities including Brussels, Strasbourg, Antwerp, Luxembourg, Geneva, and Paris. Meets with 33.632. Usually offered every summer.

33.433 Summer Seminar on the European Community's Current Programs (3) Current community policies, including: Common Agricultural Policy (C.A.P.); Value-Added Tax (V.A.T.); regional policy; Lomé convention; and Economic and Monetary union. May be taken independently from the three-course series. Usually offered every summer. Meets with 33.633. *Prerequisite:* 33.431 and approval by the dean of the School of International Service.

33.465 Contemporary International Trade and Investment Policies (3) The major contemporary foreign trade and international investment policy issues confronting the U.S. Geographic and functional issues are analyzed in both economic and political terms. Usually offered every fall. *Prerequisite:* 33.385 or 33.615.

33.466 Contemporary U.S. Foreign Economic Policy: Finance, Energy, and Development (3) The major issues confronting U.S. foreign economic policy in the sectors of finance, energy, development, and the international monetary system. Problems are analyzed in both economic and political terms. Usually offered every spring. *Prerequisite:* 33.385 or 33.615.

33.490 Independent Study Project in International Studies (1–6)

33.491, 33.492, 33.493, 33.494 Special Semesters in International Studies (4), (4), (4), (4) *Foreign Policy Semester*: Innovative approach to education which permits a group of students, guided by a team of professors, to devote their entire efforts for one semester to United States foreign policy formulation and implementation. Systematic study of foreign policy emphasizes qualitative analysis and employs quantitative methods as appropriate. Students participate in seminars, workshops, on-site observation, and individual and joint research projects, and meet with foreign policy makers and influencers from government, media, and other private-sector organizations. Internship optional. Usually offered every term. *Prerequisite:* junior standing and permission of the coordinator of the semester. *International Development Semester*: Innovative approach to education which permits a group of students, guided by a team of professors, to devote their entire efforts for one semester to the theme of development. Integrates and synthesizes knowledge from various fields and applies this multidisciplinary approach to the analysis of specific issues and problems in fields of political, economic, and social development. Students participate in seminars and conferences, individual and team research projects, on-site observation and field investigations, simulation exercises, and computer-aided measurement and analysis of development data. Internship optional. Usually offered every term. *Prerequisite:* junior standing and permission of the coordinator of the semester.

33.498 Senior Honors Thesis (1–6) Usually offered every term. *Prerequisite:* admission to SIS honors program and permission of SIS undergraduate counselor.

Graduate and Advanced Undergraduate Courses

33.504 Multinational Corporations (3) The structure and functions of multinational corporations in the global system and their developmental effect on other actors. Usually offered every fall.

33.513 Computer Applications in International Relations Research (3) The use of the Statistical Package for the Social Sciences (SPSS) and multivariate statistical methods in international relations research. Usually offered every semester. *Prerequisite:* 33.307 or 33.600.

33.518 Diplomacy of World War II (3) Foreign policies of the Axis countries (Germany, Italy, and Japan) and the major allied powers (U.S., U.K., USSR, France, and China). International conferences and agreements leading to the Potsdam conference and organization of the U.N. The relation of wartime diplomatic developments to current issues in international relations. Usually offered alternate falls.

33.519 Special Studies in International Politics (3) Topics have included population dynamics, war crimes, ethnicity and international politics, Chinese ideology, and reform and revolution in Latin America. May be repeated for credit in the same term; topic must be different. Usually offered every term.

33.520 Survey of International Law and Organization (3) Graduate introduction to the nature and functions of international law and the interstate system within which it operates. Emphasis on recent trends and future capabilities. For graduate students who have no previous courses in international law or international organization. Usually offered every fall.

33.530 Colloquium on the Common Market (3) Taught in French. Topics include institutional development, financing of community activities, community policies, external relations, community law, and business case studies. Specific issues within each area rotate regularly every semester over a two-year cycle. Usually offered every term. *Prerequisite:* approval of the dean of the School of International Service.

33.534 World Human Needs and International Planning (3) Social, economic, political, and moral implications of the growing chasm between rich and poor nations; world population growth, resources, and environmental pollution; differences of opportunity for food and health; housing, education, employment, social security, migration, and brain-drain; implications of resentment and violence potentials; and problems and possibilities of international planning. Usually offered every fall.

33.536 Special Topics in World Human Needs (3) Topics have included world food resources and policy, international administration, international planning, world population dynamics, disaster preparedness and relief, world housing, and world geography. May be repeated for credit in the same term; topic must be different.

33.537 Special Topics in Development Management (3) Topics will include managing rural development; agriculture and international development; migration, urbanization, and regional planning; development project management; development evaluation, and similar topics. May be repeated for credit in the same term; topic must be different. Usually offered every term.

33.551 Politics and Society in Western Europe Since 1945 (3) The political systems, values, and sociological changes in

West European society since 1945; an analysis of European nations and regions and of different levels of development and economic organization. Usually offered every fall.

33.557 Foreign Policy Formulation in West European States (3) Conditioning factors, instrumentalities, political parties, pressure groups and organizations, and public media and opinion. Usually offered every spring.

33.558 Soviet Political System (3) Study of the Soviet political system and its relationship to political culture and the formation of social values. Emphasis is on the Communist Party and the interdependence of political and social behavior. Usually offered every fall.

33.559 Selected Topics in Cross-National Studies (3) Topics include comparative ethnic politics, comparative class formations, comparative strategies of modernization, comparative communist systems, culture and communication in cross-national studies; usually with a geographical, regional focus. Offered irregularly.

33.561 Modern China (3) Emergence of China as a world power, with emphasis on economic, political, and social trends in the People's Republic of China today. Usually offered alternate springs.

33.562 Modern Japan (3) Continuity and change in postwar Japanese society as contrasted with the prewar society. Usually offered alternate falls.

33.567, 33.568 International Relations of East Asia I, II (3), (3) Recent historical and contemporary interstate relations in East Asia, and the place of East Asia in world affairs. Usually offered every term.

33.569 International Relations of Southeast Asia (3) Recent and contemporary interstate relations in Southeast Asia and the place of Southeast Asia in world affairs. Usually offered alternate springs.

33.571, 33.572 International Relations of the Middle East I, II (3), (3) Recent historical and contemporary interstate relations in the Middle East and North Africa and the place of the Middle East in world affairs. Usually offered every term.

33.573, 33.574 International Relations of Africa I, II (3), (3) Recent historical and contemporary interstate relations in Africa and the place of Africa in world affairs. Usually offered every term.

33.577, 33.578 International Relations of Latin America I, II (3), (3) Recent and contemporary interstate relations in Latin America and the place of Latin America in world affairs. Usually offered every term.

33.579 Selected Regional and Country Studies (3) Selected topics in contemporary international relations with regional or area focus. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* appropriate regional course at the 500 or 600 level or equivalent.

33.581 Schools of Thought in Contemporary United States Foreign Policy (3) Seminar examining disparate normative assumptions about United States foreign policy. A wide spectrum of viewpoints is examined, and students explore their own values as they relate to foreign policy. Usually offered every spring.

33.582 International Organizations and Latin American Development (3–6) Drawing on Washington-area resources relating to Latin America and to inter-American affairs (e.g., OAS, Inter-American Development Bank, USIA, AID, and the Latin American diplomatic community), the course examines selected major issues in inter-American relations with a focus on the role of international and U.S. agencies and on foreign policies of individual Latin American nations. Usually offered every summer.

33.583 United States in World Affairs (3) Recent and contemporary interstate relations in areas of American influence and the place of the United States in world affairs. Usually offered every fall.

33.588 International Security and Arms Control (3) The strengths and weaknesses of arms control. Examination of the military strategy-policy relationship, deterrence theory, strategic posture and doctrine, and terrorism. Usually offered alternate falls.

33.589 Selected Topics in Comparative Policy Analysis (3) Topics include comparative and foreign policy arenas such as welfare, education, science, housing, health, and development strategies (defense and disarmament, foreign economic policy); usually with a geographical, regional focus. Offered irregularly.

33.590 Independent Reading Course in International Studies (1–6)

33.593 Humphrey Fellows Seminar (3) A special seminar for Hubert Humphrey Fellows. Topics vary with the semester, but include the issue of technological transfer. Usually offered every term. May be repeated for credit, but not within the same term; topic must be different. *Prerequisite:* open to Humphrey Fellows; other students admitted by permission of instructor.

Graduate Courses

33.600 Introduction to Quantitative International Relations (3) Introduction to research design, quantitative measurement, statistical analysis, and computer use for international relations research. Usually offered every term.

33.601 Foci of Analysis in International Relations (3) Problem identification, definition of boundaries of the field, development of normative and analytic goals, and establishment of priorities. Usually offered every fall and summer.

33.602 Contemporary International Politics (3) The course covers a number of contemporary topics from a diversity of perspectives. Topics include East-West relations, regional integration and fragmentation patterns, North-South relations, development and interdependency challenges, and the emergence of new actors in the international system. Usually offered every term.

33.604 Masterworks of International Relations (3) A literature course divided into twenty-one topics which are chronologically ordered by reference to the date of works initiating streams of discourse. Representative later works are also covered. Students are required to keep a working journal of their reading notes for the instructor's inspection. Usually offered every spring.

33.615 Fundamentals of United States Foreign Economic Policy (3) Analysis of the principal American policies of in-

ternational trade, finance, development, energy, and investment. Issues are examined in the context of foreign and domestic economic and political considerations. Usually offered every fall. *Prerequisite:* 19.101, 19.311, or equivalent.

33.621 International Law and the Legal Order (3) Nature and functions of international law in interstate relations, with emphasis on recent trends in scholarship and on cases, documents, and other original materials. Usually offered every spring.

33.625 World Organization and World Order (3) Origins, principles, organization, activities, and circumstances of the League of Nations, United Nations, and allied models of future world order. Theoretical aspects emphasized. Usually offered every spring.

33.630 The European Community and International Trade (3) The course addresses all students interested in increasing their knowledge of the European Community. It deals primarily with the development of the Community, its institutions, various common policies, external relations, and laws in the larger context of international business. Usually offered every fall and spring.

33.631 An Overview of the European Community (3) The road to European unity; basic treaties; composition, role, and competence of the commission; current policies; and the business environment. Emphasis on topics of lectures scheduled for subsequent European Community Institute in Europe. May be taken separately from the three-course series. Usually offered every summer. Usually offered every summer. Meets with 33.431. *Prerequisite:* approval by the dean of the School of International Service.

33.632 The European Community Institute in Europe (6) The second of a three-course series on the history, development, organization, policies, practices, and future trends of the European Community examined in the larger framework of international business. On-site lectures, interviews, conferences, visits, and readings in various cities including Brussels, Strasbourg, Antwerp, Luxembourg, The Hague, and Paris. Meets with 33.432. Usually offered every summer.

33.633 Summer Seminar on the European Community's Current Programs (3) Current community policies, including: Common Agricultural Policy (C.A.P.); Value-Added Tax (V.A.T.); regional policy; Lomé convention; and Economic and Monetary union. May be taken independently from the three-course series. Usually offered every summer. Meets with 33.433. *Prerequisite:* 33.631 and approval by the dean of the School of International Service.

33.637 International Development (3) Alternative theories and definitions of development as expressed in the major international institutions (aid agencies, cartels, multinational corporations) concerned with the transfer of resources. Considers the problems of the "change-agent" in working for development and examines the major development issues. Usually offered every term.

33.638 Selected Topics in International Development Skills (1) Introduction to a specific technique or approach currently used in the international development field, focusing on project planning, community development, action research, or another similar area. May be repeated for credit in the same term; topic must be different. Offered every term. *Prerequisite:* 33.637, 54.613, 19.560, or equivalent.

33.639 Development Problems and Sectoral Strategies (3) Examination and evaluation of the translation of international development theory into policy, programs, and projects, with particular emphasis on the following sectors: food and nutrition, health and family planning, human resource development, and energy and environmental activities. Usually offered every spring. *Prerequisite:* 33.637 recommended but not required.

33.640 International Communication (3) Concepts, theories, and problems of international communication. Individual group behavior as presented in social and behavioral sciences. Usually offered every fall.

33.641 Psychological and Cultural Bases of International Politics (3) Phenomena and problems of international political behavior and underlying psychological and cultural forces. Theory of international politics from the point of view of behavioral science. Usually offered every spring. *Prerequisite:* 33.340 or 33.640.

33.642 Cross-Cultural Communication (3) Contribution of relevant social and behavioral science to the study of cross-cultural communication. Analysis of culture as communication and of value-systems as essential in communication. Usually offered alternate springs. *Prerequisite:* 33.640 or equivalent.

33.643 Communication and Political Development (3) Theories and models. Communication patterns and political socialization in modernization. Usually offered every fall. *Prerequisite:* permission of instructor.

33.644 Communication and Social and Economic Development (3) Communication as an instrument of social and economic development. Uses of communication for national integration, social change, and diffusion of innovation. Usually offered every spring. *Prerequisite:* permission of instructor.

33.651 Culture and Society: Marx to Weber (3) Begins with Hegel and Marx and ends with the sociopolitical alterations after 1880, reflected in the sociology of Max Weber. Emphasis also includes Spencer, Comte, J. S. Mill, Gumplowicz, Gabriel Tarde, and Durkheim, positivism, neo-Kantianism, and early Marxist-Leninism, particularly materialism and empirio-criticism. Contrapuntal themes: naturalism, impressionism, and German expressionism and Italian futurism. Usually offered every fall. *Prerequisite:* courses in sociology, literature, and philosophy are desirable.

33.652 Culture and Society: Freud to Sartre (3) The beginnings of psychoanalysis: Nietzsche and antirationalism; Sorel and myth; the role of models, fictions, and ideal types. The shift from liberal to antiliberal political systems: Soviet Russia and the arts; dadaism and surrealism. Spengler and metahistory; intellectuals and communism; the varieties of fascism. The generation of the absurd: Camus and Sartre. The phenomenon of National Socialism and its relation to cultural derangement. Usually offered every spring. *Prerequisite:* courses in philosophy, sociology, European history are desirable.

33.655 International Relations of Western Europe (3) World War II diplomacy affecting postwar Europe and the origins and development of the cold war. European security; West German foreign policy and East-West diplomacy relating to Germany from World War II to the present; and French foreign policy through the Gaullist period. Usually offered every fall.

33.656 Contemporary International Relations of Western Europe (3) Theoretical approaches to the study of European

integration. Evolution of West European unity since World War II with emphasis on the European Community, United States-West European relations from the 1960s, and contemporary issues of European security. Usually offered every spring.

33.659 International Relations of the Soviet Union (3) Analysis of recent and contemporary interstate relations in areas of Soviet influence and the place of the USSR in world affairs. Usually offered every fall.

33.664 Islam and Nationalism: Middle East (3) Lecture and discussion on secular nationalism and Islamic militancy in the Middle East and North Africa during the past one hundred years; the origins and characteristics of the movements; the conflict between them and its impact on the politics and international relations of the area; the emergence of neofundamentalist Islamic movements. Usually offered every spring.

33.665 Contemporary International Trade and Investment Policies (3) The major contemporary foreign trade and international investment policy issues confronting the U.S. Geographic and functional issues are analyzed in both economic and political terms. Usually offered every fall. *Prerequisite:* 33.385 or 33.615.

33.666 Contemporary U.S. Foreign Economic Policy: Finance, Energy, and Development (3) The major issues confronting U.S. foreign economic policy in the sectors of finance, energy, development, and the international monetary system. Problems are analyzed in both economic and political terms. Usually offered every spring. *Prerequisite:* 33.385 or 33.615.

33.670 Theory and Method in Cross-National Studies (3) Theoretical and methodological approaches to cross-national studies and their historical development; implications for contemporary research in comparative political and policy analysis; policy relevance of contending approaches (e.g., conflict versus consensus). Usually offered every fall.

33.682 United States Foreign Policy (3) Analysis of American foreign policy and diplomacy, including the role of the President, Congress, Department of State, and other agencies in foreign policy making. Usually offered every fall.

33.684 National Security Policy (3) Policy making, implementation, and control; civilian-military, military-industrial, and executive-legislative relations; and the interaction of security policies of the United States and other powers. Usually offered every fall.

33.686 Comparative Foreign Policy Analysis (3) Psychological, political, societal, and systematic components of foreign policy and decision making. Usually offered every fall.

33.689 Seminar in Foreign Policy Analysis (3) Graduate research seminars focusing on selected topics; analysis of Soviet policy-making, domestic and foreign. Approaches to foreign policy analysis. Cognitive mapping in international relations. Social indicators in foreign policy research. May be repeated for credit in the same term; topic must be different.

33.690 Independent Study Project in International Studies (1–6)

33.691 Internship in International Affairs (1–12) Direct involvement in policy making through participation in a governmental agency or nongovernmental organization. Credit varies, depending on nature of internship and number of hours involved. Usually offered every term. *Prerequisite:* permission of coordinator of internships, SIS.

33.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

33.693 Practicum: Action Research in Development Management (6) Action research, supervised by a faculty member, involves development management degree candidates in analyzing an organization and its interaction with its environment and clientele. Special attention is given to improving organizational responsiveness to community needs. *Prerequisite:* Any five of the following: 19.560, 33.639, 33.593, 33.637, 54.614, 55.513.

33.701 Development of the Study of International Relations (3) A historical/developmental survey of international relations, beginning with the post-World War I era. Professor and students examine the proposition that the literature of this relatively new field reflects and indeed grows out of the changing patterns of world politics at the time of writing. Usually offered every fall. *Prerequisite:* admission to the Ph.D. program in international relations.

33.702 Comparative and Cross-National Studies (3) Theoretical and methodological approaches to comparative and cross-national studies, with emphasis on the systemic context for political activity and how this is manifested in public and international policy. Literature drawn from several social sciences, with attention to policy and political systems in different types of countries. Usually offered every spring. *Prerequisite:* admission to the Ph.D. program in international relations.

33.703 International Political Economy (3) Examination of the genesis, structure, and tendencies of the world economy from the viewpoint of major ideological-theoretical traditions. Application of the assumptions and tools of political analysis to the study of global and regional regimes which constitute the world economy. Usually offered every fall. *Prerequisite:* admission to the Ph.D. program in international relations.

33.704 Conduct of Inquiry in International Relations (3) Survey and analysis of alternative theories of knowledge in the social sciences. Epistemological norms of modern empiricism. The critique of empiricism. Linguistic analysis, phenomenology, ethnomethodology, hermeneutics, critical theory, structuralism, and post-structuralism. Application to the study of international relations. Usually offered every spring. *Prerequisite:* admission to the Ph.D. program in International Relations.

33.710 Colloquium in International Relations (3) Intensive dialogue among faculty members and doctoral students in the international relations field. Some M.A. students admitted with permission. Reading and discussion of literature and ideas in an aspect of the field announced in advance by the Office of Graduate Studies, School of International Service. Preparation for comprehensive examination.

33.725 Seminar on Law in International Affairs (3) The history and theory of international law, major areas of change in contemporary law, and the role of the practitioner. Research in students' special fields. Usually offered every spring. *Prerequisite:* School of International Service: signature of instructor; Washington College of Law: admission to J.D./M.A. program and second-or third-year standing.

33.729 Research Seminar in International Law and Organization (3) Research seminar organized according to need around a substantive problem focus, a technique focus, or a more general focus. Preparation for comprehensive examination. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall. *Prerequisite:* 33.621 or 33.625.

33.740 Colloquium in International Communication (3) Intensive dialogue among faculty members and doctoral students in international communication. Some M.A. students admitted with permission. Reading and discussion of literature and ideas in an aspect of the field announced in advance by the Office of Graduate Studies, School of International Service. Preparation for comprehensive examinations. Usually offered every spring.

33.797 Master's Thesis Supervision (1–6) Usually offered every term.

33.799 Doctoral Dissertation Supervision (1–12) Usually offered every term.

Jewish Studies

Undergraduate Courses

34.101 Introduction to Jews and Judaism /A (3) A survey of Judaism—its rituals and major institutions—from its origins in antiquity to the modern Reform, Orthodox, and Conservative movements; also includes a discussion of the variety of secular expressions of Judaism adopted by American Jews. Usually offered every fall.

34.205 Ancient and Medieval Jewish Civilization /S (3) A survey of the political, economic, social, and intellectual history of the Jews from the Biblical period to 1492. The course examines the independent Jewish states that flourished in Palestine, the rise of Diaspora Jewries, and the foreign influences that affected not only the political history of the Jews but also their internal organization and intellectual life. Usually offered every fall.

34.206 Modern Jewish Civilization /S (3) A survey of the ways Jews responded to the challenges of modernity. These reactions included the creation of new Jewish communities in America and Israel, shifts in Jewish political status, and innovations in Jewish religious and intellectual life such as Zionism and Hasidism. Usually offered every spring.

34.211 Humanity and Jewish Identity /A (3) Factors and issues that affect Jewish identity, such as assimilation, intermarriage and conversion, anti-Semitism, education, philanthropy, religious denominations, the synagogue, rituals, and the role of women. The impact of Israel, the Holocaust, and Soviet Jewry on Jews and Jewish institutions. Usually offered every spring.

34.228 Judaism and Christianity in Dialogue (3) This is a course generally given by a Jewish scholar and a Christian scholar. The theological differences and similarities between the two traditions are discussed from all points of view. The origin of Christianity out of Judaism and the divergencies in their respective directions are analyzed. Attention is also given to agreement and conflict on political and social issues, such as abortion, church and state, missionary activity, and religious prejudice.

34.301 Introduction to Jewish Literature (3) A survey of the ways Jews have expressed themselves in literary forms, beginning with the Bible and continuing with Biblical commentaries, the Talmud, medieval poetry, legal codes, and contemporary Jewish writing on the historical experience.

34.305 Judaism and Current Issues /S (3) Analysis of varied Jewish positions on some key issues of our time, such as Soviet Jewry, the role of women, the "Moral Majority," religion and state, anti-Semitism, abortion, biomedical ethics, and terrorism.

34.310 Topics in Jewish Religion and Thought /A (3) Rotating topics on the intellectual and theological dimensions of the Jewish people. Personalities, such as Martin Buber; movements, such as Reform Judaism; or fields of study, such as Jewish mysticism. May be repeated for credit but not in the same term; topic must be different.

34.312 Holocaust and Modern Man /A (3) Analysis of the roots of pathological anti-Semitism and racism that led to the Holocaust. Description of the intended "final solution," with attention to the responses of Jews and the nations of the world. Theological problems of explaining the Holocaust. Usually offered every fall.

34.320 Topics in Jewish Culture (3) Rotating courses on historical and contemporary aspects of the Jewish heritage, such as Judaism and Hellenism; Judaism and Islam; art, dance, and drama as expressions of the Jewish spirit; and Jewish education: content and method. May be repeated for credit but not in the same term; topic must be different.

34.330 The American Jewish Community /S (3) Today American Jewry constitutes the preeminent Diaspora Jewish community. This course traces the remarkable development of this group by examining the waves of Jewish immigration to the United States and the institutions that American Jews created to sustain their community.

34.340 Topics in Jewish Literature /A (3) An in-depth examination of one theme or period in Jewish literature. Topics include Holocaust literature, modern Hebrew poetry, Jewish liturgy and song, Yiddish literature, American Jewish literature, and folktales. May be repeated for credit but not in the same term; topic must be different.

34.385 Israel as Idea and State /S (3) Zionism as a philosophy; the concept of Zion in post-Biblical literature and thought; the establishment of the state of Israel, its current status and problems, and its relationship to the Arab world. Usually offered alternate falls.

34.386 Israel and World Jewry (3) The centrality of Israel. The Jewish bond, support for Israel, and the significance of Jewish life in Europe and America. Israel's political and religious significance for non-Jews.

34.390 Independent Reading Course in Jewish Studies (1–6)

34.481 Senior Thesis in Jewish Studies (3) Jewish studies majors prepare a thesis on a topic selected after consultation with the student's adviser. *Prerequisite:* all other Jewish studies program major requirements.

34.490 Independent Study Project in Jewish Studies (1–6)

34.491 Internship in Jewish Studies (1–6) The internship provides the student an opportunity to enrich organizational

skills and experience. The student earns university credit for the work and contributes needed services to the host agency, such as community relations, religious, Israel-centered, social welfare. The amount of credit depends on the number of hours of work.

Graduate and Advanced Undergraduate Courses

The following courses are part of a cooperative program of the School of Education and the College of Jewish Studies of Greater Washington, leading to a Master of Arts in Education with a specialization in Jewish education. The courses are open to any qualified student.

34.500 Foundations of Jewish Culture and Tradition (3) Introduction to the deeper methodological issues surrounding selected liturgical and ritual institutions and practices. The approach is three-directional: (1) Historical development, culminating in variants in the Ashkenazic and Sephardic traditions; (2) analysis of theological content; and (3) application to contemporary religious values in the American and Jewish community. *Prerequisite:* knowledge of basic rabbinic concepts and permission of instructor.

34.502 The Modern Jewish Experience in Literature (3) The experience of the Jewish people in the twentieth century as it is reflected in the works of modern Jewish writers from Israel, Europe, and America, including the following authors: Malamud, Wiesel, Schwarz-Bart, Wouk, Sholom Aleichem, Mendele Mocher Seforim, A. B. Yehoshua, and Amos Oz. The effect of historical and cultural differences is analyzed. *Prerequisite:* knowledge of twentieth-century Jewish life, a previous course in literature, permission of instructor.

34.504 Jewish Ethics and Values (3) An introduction to advanced methods of handling Jewish texts dealing with legal, ethical, and moral issues confronting modern society. Topics such as birth control, abortion, zero population growth, gambling, women's liberation, cruelty to animals, euthanasia, business ethics, and the conflict of ethics and law are studied. *Prerequisite:* knowledge of basic Jewish philosophical and rabbinic concepts and permission of instructor.

34.506 Jewish Social, Political, and Cultural Institutions (3) An introduction to advanced methods of handling Jewish texts dealing with social, political, and cultural issues confronting Jewish societies throughout the ages. Topics include Jewish education and scholarship, Jewish self-government, Zionism, and Jewish philanthropic institutions. Usually offered every spring. *Prerequisite:* permission of instructor or program director.

34.508 Analysis of Jewish Liturgical Texts (3) An in-depth study of liturgy in Judaism. The major vehicle for the study is the liturgy itself, but the class also does readings from the secondary literature. The liturgical texts are drawn from classical and contemporary sources.

34.590 Independent Reading Course in Jewish Studies (1–6)

Graduate Course

34.690 Independent Study Project in Jewish Studies (1–6)

Language and Foreign Studies

Elementary and Intermediate

Undergraduate Courses

36.108 Latin, Elementary I (3) A foundation for the reading and understanding of Latin. This includes studying the phonology of Latin, building vocabulary, studying Latin grammar, and reading and translating Latin texts. Usually offered every fall.

36.109 Latin, Elementary II (3) Continuation of 36.108. Usually offered every spring. *Prerequisite:* 36.108.

36.110 Hindi, Elementary I /A (3) Usually offered every fall.

36.111 Hindi, Elementary II /A (3) Usually offered every spring. *Prerequisite:* 36.110 or equivalent.

36.112 Chinese, Intensive Elementary I /A (6) Understanding and speaking conversational Chinese and reading simple texts. Emphasis on audio-lingual skills. Common speech situations. Pronunciation drills, structural pattern drills within the limits of a basic vocabulary, and exercises in the Chinese writing system constitute the main part of classroom and laboratory activities. Usually offered every fall.

36.113 Chinese, Intensive Elementary II /A Continuation of 36.112. *Prerequisite:* 36.112 or equivalent.

36.114 Ancient Greek, Elementary I (3) Foundations of ancient Greek for reading and translation. Introduction to the alphabet, noun and verb forms, and grammar. Usually offered alternate falls.

36.115 Ancient Greek, Elementary II (3) Continuation of 36.114. Usually offered alternate springs.

36.116 Hebrew, Elementary Modern I /A (3) Usually offered every fall.

36.117 Hebrew, Elementary Modern II /A (3) Usually offered every spring. *Prerequisite:* 36.116 or equivalent.

36.118 Italian, Elementary I /A (3) Emphasis on mastering structure. Basics of phonology and morphology. Situational approach. Development of good pronunciation and speech patterns. Two and a half hours per week of class instruction supplemented by individual language and laboratory work. Usually offered every fall.

36.119 Italian, Elementary II /A (3) Continuation of 36.118. Usually offered every spring.

36.122 French, Elementary I /A (3) Emphasis on audio-lingual skills. Drills on the main features of French structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall.

36.123 French, Elementary II /A (3) Continuation of 36.122. Usually offered every spring. *Prerequisite:* 36.122 or equivalent.

36.124 French, Intensive Elementary I /A (6) Usually offered every fall.

36.125 French, Intensive Elementary II /A (6) Usually offered every spring. *Prerequisite:* 36.124 or equivalent.

36.132 German, Elementary I /A (3) Emphasis on audio-lingual skills. Drills on the main features of German structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall.

36.133 German, Elementary II /A (3) Continuation of 36.132. Usually offered every spring. *Prerequisite:* 36.132 or equivalent.

36.142 Russian, Elementary I /A (3) Emphasis on audio-lingual skills. Drills on the main features of Russian structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall.

36.143 Russian, Elementary II /A (3) Continuation of 36.142. Usually offered every spring. *Prerequisite:* 36.142.

36.146, 36.147 Russian Elementary Workshop I, II (2),(2) Graded practicum designed to reinforce Russian language skills and expand vocabulary. Coordinated with 36.142 and 36.143. Must be taken with the appropriate course. Usually offered every term.

36.152 Spanish, Elementary I /A (3) Emphasis on audio-lingual skills. Drills on the main features of Spanish structure. Inductive presentation of grammar. Basic vocabulary. Reading and writing as auxiliary skills. Usually offered every fall.

36.153 Spanish, Elementary II /A (3) Continuation of 36.152. Usually offered every spring. *Prerequisite:* 36.152.

36.154 Spanish, Intensive Elementary I /A (6) Usually offered every fall.

36.155 Spanish, Intensive Elementary II /A (6) Usually offered every spring. *Prerequisite:* 36.154 or equivalent.

36.216 Hebrew, Intermediate Modern I /A (3) Usually offered every fall. *Prerequisite:* 36.129 or equivalent.

36.217 Hebrew, Intermediate Modern II /A (3) Usually offered every spring. *Prerequisite:* 36.216 or equivalent.

36.218 Italian, Intermediate I /A (3) Refinement of basic language skills. Expansion of vocabularly in a cultural context. Development of communicative skills. Reading and writing as auxiliary skills. Usually offered every fall. *Prerequisite:* 36.119 or equivalent.

36.219 Italian, Intermediate II /A (3) Continuation of 36.218. Usually offered every spring. *Prerequisite:* 36.218 or equivalent.

36.222 French, Intermediate I /A (3) Audio-lingual skills as well as reading and writing. Text material is focused on French cultural patterns. Usually offered every fall. *Prerequisite:* 36.123 or equivalent.

36.223 French, Intermediate II /A (3) Continuation of 36.222. Usually offered every spring. *Prerequisite:* 36.222.

36.224 French, Intensive Intermediate I /A (6) Usually offered every fall. *Prerequisite:* 36.125 or equivalent.

36.225 French, Intensive Intermediate II /A (6) Usually offered every spring and summer. *Prerequisite:* 36.224 or equivalent.

36.232 German, Intermediate I /A (3) Audio-lingual skills as well as reading and writing. Text material is focused on German cultural patterns. Usually offered every fall. *Prerequisite:* 36.133.

36.233 German, Intermediate II /A (3) Continuation of 36.232. Usually offered every spring. *Prerequisite:* 36.232.

36.242 Russian, Intermediate I /A (3) Audio-lingual skills as well as reading and writing. Text material is focused on Russian cultural patterns. Usually offered every fall. *Prerequisite:* 36.143.

36.243 Russian, Intermediate II /A (3) Continuation of 36.242. Usually offered every spring. *Prerequisite:* 36.242 or equivalent.

36.246, 36.247 Russian Intermediate Workshop I, II (2),(2) Graded practicum designed to reinforce Russian language skills and expand vocabulary. Coordinated with 36.242 and 36.243. Must be taken with the appropriate course. Usually offered every term.

36.252 Spanish, Intermediate I /A (3) Audio-lingual skills as well as reading and writing. Text material is focused on Spanish cultural patterns. Usually offered every fall. *Prerequisite:* 36.153.

36.253 Spanish, Intermediate II /A (3) Continuation of 36.252. Usually offered every spring. *Prerequisite:* 36.252.

36.254 Spanish, Intensive Intermediate I /A (6) Usually offered every fall. *Prerequisite:* 36.155 or equivalent.

36.255 Spanish, Intensive Intermediate II /A (6) Usually offered every spring. *Prerequisite:* 36.254 or equivalent.

36.258 Practical Spanish for Careers I /A (3) A practical, multimedia course stressing communication in Spanish appropriate to a wide variety of situations encountered in the world of work. Emphasis is on mastery of basic language skills and culture with extensive use of filmstrips, sound cassettes, audio tapes, video tapes, etc. The course helps students learn to communicate with the ever-growing Spanish-speaking communities in the U.S. Usually offered every fall. *Prerequisite:* one year of college Spanish or equivalent.

36.259 Practical Spanish for Careers II /A (3) Continuation of 36.258. Usually offered every spring. *Prerequisite:* 36.258.

36.390 Independent Reading Course in Language and Foreign Studies (1–6)

36.490 Independent Study Project in Language and Foreign Studies (1–6)

Graduate and Advanced Undergraduate Courses

36.590 Independent Reading Course in Language and Foreign Studies (1–6)

Graduate Courses

36.690 Independent Study Project in Language and Foreign Studies (1–6)

Advanced and Topics Courses

Undergraduate Courses

37.240 Russia and America—A Comparison (3) A systematic comparison of important aspects of the two competing civ-

ilizations from a humanistic point of view. An interdisciplinary approach. Lectures and group discussions. Guest speakers. In English. Usually offered every fall.

37.322 French Conversation and Composition I /A (3) Perfection of audio-lingual and reading-writing skills. Vocabulary expansion through a variety of classroom activities. Study of idioms, clichés, and style as used in spoken and written French. Designed for students who have studied French in the nonintensive track and who wish to continue to develop their practical skills in French. Usually offered every fall. *Prerequisite:* 36.223 or equivalent.

37.323 French Conversation and Composition II /A (3) Continuation of 37.322. Usually offered every spring. *Prerequisite:* 37.322 or equivalent.

37.324 French Intensive Conversation and Composition I /A (6) Usually offered every fall. *Prerequisite:* two years of college French or equivalent.

37.325 French Intensive Conversation and Composition II /A (6) Usually offered every spring. *Prerequisite:* 37.324 or equivalent.

37.326 French Topics (3) Courses taught in French on one of these topics: survey of arts, political life, customs and manners, the younger generation, architecture, leisure and entertainment, the provinces, the role of women, rulers and statesmen, Paris—its places and inhabitants, French politics, and France today and tomorrow, and methods and techniques in translating French. May be repeated for credit in the same term; topic must be different. Usually offered every term. Meets with 37.626. *Prerequisite:* 37.323 or 37.324 or permission of instructor.

37.327 Introduction to French Literature (3) A systematic survey of the historical development of French literature. Reading of selected texts in the original. Usually offered every spring. *Prerequisite:* 37.323 or 37.324 or permission of instructor.

37.328 Introduction to French Translation (3) An introduction to the methods, techniques, and problems involved in translating from French into English. Emphasis is on the practice of translating general material with some consideration of the translation of specialized material. Introduction to the field of translation as a profession. Usually offered every fall. Meets with 37.628. *Prerequisite:* 37.323 or 37.324 or permission of instructor.

37.332 German Conversation and Composition I /A (3) Perfection of audio-lingual and reading-writing skills. Review of grammatical structure. Vocabulary expansion through extensive reading. Problems of style and creative use of language. Usually offered every fall. *Prerequisite:* 36.233 or equivalent.

37.333 German Conversation and Composition II /A (3) Continuation of 37.332. Usually offered every spring. *Prerequisite:* 37.332 or equivalent.

37.336 German Topics (3) Courses taught in German on one of these topics: customs and manners, lands and regions, east and west, and survey of arts. May be repeated for credit in the same term; topic must be different. Meets with 37.636. Usually offered every term. *Prerequisite:* 37.332 or permission of instructor.

37.337 Introduction to German Literature (3) A systematic survey of the historical development of German literature. Reading of selected texts in the original. Usually offered every spring. *Prerequisite:* 37.332 or permission of instructor.

37.338 German Civilization I (3) A chronological survey of German civilization from its beginning to the present. The course provides information necessary to the understanding of historical developments in politics, economics, fine arts, and intellectual movements. Conducted in German. Usually offered every fall. *Prerequisite:* 36.233 or equivalent.

37.339 German Civilization II (3) A continuation of 37.338. Conducted in German. Usually offered every spring. *Prerequisite:* 36.233 or equivalent.

37.341 Russian Culture Workshop (3) Topical approach to Russian usage in reference to cultural and political history. Usually offered every term. Meets with 37.641. *Prerequisite:* two years of college Russian or equivalent.

37.342 Russian Conversation and Composition I /A (3) Perfection of audio-lingual and reading-writing skills. Review of grammatical structure. Vocabulary expansion through extensive reading. Problems of style and creative use of language. Usually offered every fall. *Prerequisite:* 36.243 or equivalent.

37.343 Russian Conversation and Composition II /A (3) Continuation of 37.342. Usually offered every spring. *Prerequisite:* 37.342 or equivalent.

37.347 Introduction to Russian Literature (3) A systematic survey of the historical development of Russian literature. Reading of selected texts in the original. Usually offered every spring. *Prerequisite:* two years of college Russian or equivalent.

37.350 Introduction to Hispanic Culture (3) This course traces the development of Hispanic culture in the Old and New World, with emphasis on the forming of values, customs, and institutions which have molded the realities of the Spanish world. Ethnic roots, the conquest of America, and the search for identity are among the topics analyzed. Usually offered alternate falls. *Prerequisite:* 36.253.

37.352 Spanish Conversation and Composition I /A (3) Perfection of audio-lingual and reading-writing skills. Review of grammatical structure. Vocabulary expansion through extensive reading. Problems of style and creative use of language. Two and a half hours a week. Usually offered every fall. *Prerequisite:* 36.253 or equivalent.

37.353 Spanish Conversation and Composition II /A (3) Continuation of 36.352. Usually every spring. *Prerequisite:* 37.352 or equivalent.

37.354 Spanish Intensive Conversation and Composition I /A (6) Usually offered every fall. *Prerequisite:* two years of college Spanish or equivalent.

37.355 Spanish Intensive Conversation and Composition II /A (6) Usually offered every spring. *Prerequisite:* 37.354 or equivalent.

37.356 Spanish Topics (3) Courses taught in Spanish on these topics: regions of Spain, social scene in Latin America, customs and manners (Spain), regionalism (Latin America), survey of Latin American arts, Mexican culture, the River Plate and Chile, race in Spanish-American literature, and methods and techniques in translating Spanish. May be re-

peated for credit in the same term; topic must be different. Usually offered every term. Meets with 37.656. *Prerequisite:* 37.353 or 37.354 or permission of instructor.

37.357 Introduction to Spanish Literature (3) A systematic survey of the historical development of Spanish literature. Reading of selected texts in the original. Usually offered every spring. *Prerequisite:* 37.353 or 37.354 or permission of instructor.

37.358 Introduction to Spanish Translation (3) An introduction to the methods, techniques, and problems involved in translating Spanish into English. Emphasis is on the practice of translating general material, with some consideration of the translation of specialized material. Usually offered every fall. Meets with 37.658. *Prerequisite:* 37.353 or 37.354 or permission of instructor.

37.359 Spanish Translation: International Relations of Latin America (3) Discussion and practice in translating Spanish-language materials dealing with the international relations of Latin America. Review of basic methods, techniques, and problems involved in translating Spanish to English (with some consideration of translating English to Spanish). Usually offered every spring. Meets with 37.659. *Prerequisite:* at least one 300-level Spanish course or permission of instructor.

37.390 Independent Reading Course in Language and Foreign Studies (1–6)

37.392 Cooperative Education Field Experience (3–9)

Note also: Consult the School of Education section of this publication for 21.340 and 21.446, courses that may be taken for credit toward a language major.

37.420 French Usage (3) An introduction to the cultural levels of the French language—colloquial French, standard French, formal French, familiar French—and to the differences between spoken and written French. Also included: study of literary prose, versification, dialects, and aspects of selected technical vocabularies. Designed for students who wish to understand the intracacies of the French language. *Prerequisite:* 37.326 and sophomore standing.

37.428 French Civilization I (3) France from the Middle Ages to the French Revolution—a survey of political, social, and economic developments, emphasizing the differences between the culture des [e lites and culture du peuple, as seen through primary sources. Usually offered every fall. *Prerequisite:* 37.326 and sophomore standing.

37.429 French Civilization II (3) France in the nineteenth and twentieth centuries. Study of the *nouveau régime*, the effects of the French revolutions on the social classes and their mental structures. Emphasis on the difference between the *culture des élites* and *culture du peuple*. Usually offered every spring. *Prerequisite:* 37.326 and sophomore standing.

37.442 Russian Literature Workshop (3) Reading and analysis of selected masterpieces (in Russian) of the Russian and Soviet periods. Usually offered every term. May be repeated for credit but not in the same term; topic must be different. Meets with 37.642. *Prerequisite:* three years college Russian or permission of instructor.

37.450 Spanish Civilization I: Spain (3) A study of the geography, history, arts, and literature of Spain from the beginning to the present. Usually offered every fall. *Prerequisite:* three years of college Spanish or equivalent.

37.451 Spanish Civilization II: Latin America (3) A study of geography and complex process of the culture and history of the Latin American countries from the origin of the indigenous civilization to the present. Usually offered every spring. *Prerequisite:* three years of college Spanish or equivalent.

37.490 Independent Study Project in Language and Foreign Studies (1–6)

37.491 Internship: French (2–3) Supervised work-study program. Usually offered every term. *Prerequisite:* permission of instructor.

37.491 Internship: German (3–6) Supervised work-study program. Usually offered every term. *Prerequisite:* three years of college German or equivalent.

37.491 Internship: Spanish (2–6) Proyecto Amistad: An internship program offering a wide variety of experiences in the Spanish-speaking community of Washington. Placements are available in bilingual schools, legal and consumer agencies, and national and international organizations. Advanced knowledge of Spanish is not required for undergraduate students. Usually offered every term. *Prerequisite:* permission of instructor.

Graduate and Advanced Undergraduate Courses

37.510 Methods in Foreign Language Teaching (1–3) Course is designed to familiarize students thoroughly with methods and materials used in teaching foreign languages. Instruction is individualized, taking into account participants' special needs, including the level at which they are preparing to teach. Usually offered every fall.

37.519 Visiting Scholar's Seminar (3) Flexible content pertaining to topics in foreign literatures, cultures, and linguistics. May be repeated for credit but not in the same term; topic must be different.

37.522 Eighteenth-Century France: Men and Ideas (3) Attitudes and ideas of the age of enlightenment as reflected in Montesquieu, Diderot, the Encyclopedists, Voltaire, and Rousseau.

37.523 French Romanticism (3) Development of the romantic movement in early nineteenth-century French literature. Analysis of sentiments of romanticists.

37.524 French Realism (3) Nineteenth-century French literature from the decline of romanticism to the turn of the century. Periods of expression known as realism, naturalism, and symbolism.

37.525 Contemporary French Literature (3) Topic changes each semester; emphasis on genre, movement, or major writers. May be repeated for credit but not in the same term; topic must be different.

37.529 Colloquium on France (3) Lectures, reports, and critical discussions on selected topics pertaining to France's current role in international politics. Cultural trends and economic problems. In French. May be repeated for credit in the same term; topic must be different. Usually offered every term.

37.533 Nineteenth-Century German Literature (3) From romanticism to realism and subsequent developments to the

beginning of World War I. Selected representatives such as Heine, Keller, Storm, Stifter, Fontane, and the Naturalists.

37.535 Contemporary German Literature (3) Topic changes each semester; emphasis on the novel, drama, or poetry. May be repeated for credit but not in the same term; topic must be different.

37.539 Colloquium on Germany (3) Lectures, reports, and critical discussions on selected topics pertaining to Germany's current role in international politics. Cultural trends and economic problems. May be repeated for credit but not in the same term; topic must be different. Usually offered every term.

37.540 Russian Structure (3) Contemporary and historical analysis of the phonology, morphology, and syntax of Russian.

37.543 Russian Classics (3) Topic changes each semester; emphasis on life and works of major writers. May be repeated for credit but not in the same term; topic must be different.

37.545 Russian Drama (3) Topic changes each semester; emphasis on a major period or works of one outstanding Russian playwright. May be repeated for credit but not in the same term; topic must be different.

37.553 Spanish Classics (3) Topic changes each semester; emphasis on a period of Spanish literature from medieval epic to the generation of 1898. May be repeated for credit but not in the same term; topic must be different.

37.554 Classics of Latin American Literature (3) Topic changes each semester; emphasis on a period of Spanish-American literature and culture from the colonial era to the present. May be repeated for credit but not in the same term; topic must be different. Usually offered every term.

37.559 Colloquium on Latin America (3) Lectures, reports, and critical discussions on peoples and governments of Latin America. Cultural trends, political and economic problems, and international relations. May be repeated for credit in the same term; topic must be different. Usually offered every term.

37.590 Independent Reading Course in Language and Foreign Studies (1–6)

Graduate Courses

37.626 French Topics (3) Courses taught in French on one of these topics: survey of arts, political life, customs and manners, the younger generation, architecture, leisure and entertainment, the provinces, the role of women, rulers and statesman, Paris—its places and inhabitants, French politics, France today and tomorrow, and methods and techniques in translating French. May be for credit within the same term: content topic must be different. Meets with 37.326. *Prerequisite:* 37.323 or 37.324 or permission of instructor.

37.628 Introduction to French Translation (3) An introduction to the methods, techniques, and problems involved in translating from French into English. Emphasis is on the practice of translating general material with some consideration of the translation of specialized material. Introduction to the field of translation as a profession. Usually offered every fall. Meets with 37.328.

37.636 German Topics (3) Courses taught in German on one of these topics: customs and manners, land and regions, east and west, and survey of arts. May be repeated for credit within the same term; topic must be different. Meets with 37.336. *Prerequisite:* two years of college German or equivalent.

37.641 Russian Culture Workshop (3) Topical approach to Russian usage in reference to cultural and political history. Usually offered every term. Meets with 37.341. *Prerequisite:* two years of college Russian or equivalent.

37.642 Russian Literature Workshop (3) Reading and analysis of selected masterpieces (in Russian) of the Russian and Soviet periods. Usually offered every term. May be repeated for credit but not in the same term; topic must be different. Meets with 37.442. *Prerequisite:* three years college Russian or permission of instructor

37.656 Spanish Topics (3) Courses taught in Spanish on these topics: regions of Spain, social scene in Latin America, customs and manners (Spain), regionalism (Latin America), survey of Latin American arts, Mexican culture, the River Plate and Chile, and and race in Spanish-American literature. May be repeated for credit within the same term; topic must be different. Meets with 37.356. *Prerequisite:* two years of college Spanish or equivalent.

37.658 Introduction to Spanish Translation (3) An introduction to the methods, techniques, and problems involved in translating from Spanish to English. Emphasis is on the practice of translating general material, with some consideration of the translation of specialized material. Usually offered every fall. Meets with 37.358.

37.659 Spanish Translation: International Relations of Latin America (3) Discussion and practice in translating Spanish-language materials dealing with the international relations of Latin America. Review of basic methods, techniques, and problems involved in translating Spanish to English (with some consideration of translating English to Spanish). Usually offered every spring. Meets with 37.359.

37.690 Independent Study Project in Language and Foreign Studies (1–6)

37.691 Internship: Spanish–Proyecto Amistad (2–6) An internship program offering a wide variety of experiences in the Spanish-speaking community of Washington, D.C. Placements are available in bilingual schools, legal and consumer agencies, and national and international organizations. Usually offered every term. Meets with 37.491. *Prerequisite:* permission of instructor.

37.692 Cooperative Education Field Experience (3–9)

37.702 Seminar in French Studies (3) Reports and critical discussion of research papers on French literature. May be repeated for credit but not in the same term; topic must be different. Usually offered every term.

37.703 Seminar in German Studies (3) Reports and critical discussion of research papers on German literature. May be repeated for credit but not in the same term; topic must be different. Usually offered every term.

37.704 Seminar in Russian Studies (3) Reports and critical discussion of research papers on Russian literature. May be repeated for credit but not in the same term; topic must be different. Usually offered every term.

37.705 Seminar in Spanish and Latin American Studies (3) Reports and critical discussion of research papers on Spanish and Latin American literature. May be repeated for credit but not in the same term; topic must be different. Usually offered every term.

37.797 Master's Thesis Seminar (1–6) May be repeated for credit but not in the same term; topic may be the same. Usually offered every term.

Linguistics

Undergraduate Courses

38.198 Language and Ethnicity (3) An introduction to sociolinguistics. How different groups deal with language, with emphasis on dialects in the United States: ethnic groups, and social, economic, and intellectual levels. Differences in race—the traditional assumptions about the nature of such differences and their effect on educability. Usually offered alternate springs.

38.199 International Vocabulary (3) This course traces the development of major language groups as a basis for analyzing language-related cultural and political cleavages in contemporary societies. The etymology of political terms and the contextual meaning of foreign words are examined. Problems of international communications are also considered. Usually offered alternate falls.

38.200 Language and Mind (3) This course examines the relationships between language and the mind and theories of first and second language acquisition. Theories of second language acquisition in childhood and by older learners and how they relate to trends in society and education are considered. Usually offered alternate falls.

Graduate and Advanced Undergraduate Courses

38.500 Principles of Linguistics (3) Introduction to scientific study of language with emphasis on structural linguistics. Foundation for further study in linguistics and methodology of language teaching. Usually offered every term.

38.501 Theory and Practice of ELT I (3) Surveys the more recent methods of foreign language instruction. Description of English consonants, vowels, stress, and intonation. Techniques and materials for teaching hearing and speaking skills. Usually offered every fall and summer. *Prerequisite:* 38.500, which may be taken concurrently.

38.502 Theory and Practice of ELT II (3) Description of features of English grammar and of written English discourse. Techniques and materials for teaching grammar and reading and writing skills. Usually offered every spring and summer. *Prerequisite:* 38.500, which may be taken concurrently.

38.521 History of Linguistics and Language Teaching (3) Surveys the history of human attitudes toward language and methods of teaching languages from the time of the ancient Greeks to the present. Usually offered every spring.

38.522 Contrastive Analysis and Error Analysis (3) An introduction to the theory of contrastive analysis and error analysis. The presentation is eclectic and does not follow any particular school of thought exclusively. Offered irregularly. *Prerequisite:* 38.501 or 38.502.

38.523 Second-Language Acquisition (3) Theories of second-language acquisition and how they relate to trends in society and in education and related disciplines. Current theory in cognitive and affective domains as it relates to second-language learning. Offered irregularly. *Prerequisite:* 38.500.

38.524 Tests and Measurements in ESL/EFL (3) Theory and practice in testing English as a second or foreign language. Test development and use. The differences in prognostic, diagnostic, and achievement testing in second-language learning. Offered irregularly. *Prerequisite:* 38.501 and 38.502.

38.525 Teaching English for Specific Purposes (3) A survey of the range of subject matter and instructional situations included under "English for specific purposes." Sample instructional materials from several areas are examined in detail. Adaptation of materials and writing of original materials are required. Usually offered every fall. *Prerequisite:* 38.501 and 38.502.

38.527 Sociolinguistics (3) Examines variability and uses of language within various types of speech communities and the correlation with such nonlinguistic factors as the topic of discourse, the identity of the participants, and the setting of the communicative act. Both monolingual and multilingual societies in developed and developing areas will be considered. Usually offered alternate falls. *Prerequisite:* permission of instructor.

38.528 Bilingual Education (3) Language acquisition, use, and competency in a bilingual setting, and the general goal of bilingual education. *Prerequisite:* permission of instructor.

38.529 Program Development and Administration in ESL (3) Approaches, requirements, and problems in establishing and administering ESL/EFL programs at the elementary, secondary, and post-secondary school levels and in adult education programs. The major focus is on the post-secondary level. Offered irregularly. *Prerequisite:* permission of instructor.

38.552 Linguistic Structure I: Phonetics and Phonemics (3) Techniques of describing speech sounds in terms of articulatory movements and formulas. Practice in hearing and transcribing phonetic sounds using tape recordings. Basic premises of phonemic analysis and practical procedures for arriving at phonemes of a language. Offered irregularly. *Prerequisite:* 38.500.

38.553 Linguistic Structure II: Morphology and Syntax (3) Problems in analysis and description of morphological data. Introduction to transformational generative grammar. Offered irregularly. *Prerequisite:* 38.500.

38.590 Independent Reading Course in English or Linguistics (1–6)

Graduate Courses

38.620 Practicum in Teaching ESL/EFL (3) Observation, participation, and supervised teaching experience in ESL/EFL at a level appropriate to the student's career objectives: elementary, secondary, and post-secondary. Weekly conferences and seminars. Usually offered every spring. *Prerequisite:* 38.501 and 38.502.

38.690 Independent Study Project in English or Linguistics (1–6)

38.700 Seminar in Linguistics (3) Content varies. Reports and critical discussion of theoretical and practical problems in linguistics and TESL/TEFL. Critical evaluation of books and papers on appropriate subjects. May include the preparation of language teaching materials. Must include a research paper or project. May be repeated for credit but not within the same term; topic must be different. Usually offered every fall. *Prerequisite:* permission of the department.

38.797 Master's Thesis Seminar (1–6)

Mathematics, Statistics, and Computer Science

Computer Science

Undergraduate Courses

40.260 Introduction to Computing /N (4) A general introduction to computing for students who wish to understand how computers work, how computers affect their lives, and how computers are used in students' own disciplines. Basic programming skills are developed by the presentation and use of PASCAL. This course does not serve as a prerequisite for 40.281 or other advanced computer-science courses. *Prerequisite:* 41.150 or three years of high-school mathematics.

40.280 Introduction to Computer Science I /N (4) Problem solving and algorithm development. Structured programming in PASCAL. Basic data types and canonical structures; arrays and subprograms; recursion. Social implications of computing. Elementary applications from business and science. *Prerequisite:* completion of or concurrent registration in 41.170, 41.211 or 41.221.

40.281 Introduction to Computer Science II /N (3) Continuation of problem solving in PASCAL. Emphasis on larger programs built from modules. Introduction to abstract data structures—stacks, queues, graphs and trees and their implementations and associated algorithms. Elementary numerical methods. *Prerequisite:* 40.280, and 41.211 or 41.221 (41.211 and 41.221 may be taken concurrently).

40.282 Assembly-Language Programming (4) Basic concepts of computer architecture and organization. Assembly-language programming: instruction formats, addressing techniques, macros, and input/output. Program segmentation and linkage. The assembly process. *Prerequisite:* 40.281 or permission of the department.

40.320 Introduction to File Design (3) An examination of the structure of files and of the input/output facilities. Topics include file usage, file design, file organization, media limitations, and data definition statements. The IBM environment is stressed; other environments are discussed as time permits. *Prerequisite:* 40.281 and 40.282.

40.330 Organization of Computer Systems (3) Logical Circuit design, integrated circuits and digital functions, data representation, register transfer operations and microprogramming, basic computer organization, the central processor and arithmetic operations. Not open to students who have taken 40.540. Usually offered every term. *Prerequisite:* 40.281 and 40.282.

40.340 Data Structures and Algorithms (3) Basic techniques of design and analysis of efficient algorithms. Implementation and manipulation of data structures, including linked lists, stacks, queues, trees, and graphs. Memory management. Internal and external searching and sorting. *Prerequisite:* 40.281 and 40.282.

40.341 Organization of Programming Languages (3) Survey of desirable features and specifications of programming languages by investigation of data types, control structures, data flow, and run-time behavior of several languages, such as FORTRAN, LISP, Ada, etc. Basic elements of compiling and interpreting. At least one non-Pascal-like language (such as LISP) is studied in detail. *Prerequisite:* 40.282 and 40.340.

40.350 Introduction to Discrete Structures (3) Introduction to mathematical topics required in computer science, such as graphs, sets and relations, boolean logic, and finite state automata. *Prerequisite:* 40.281 and either 41.211 or 41.221.

40.365 Introduction to Operating Systems (3) A survey of the resource-management strategies used in contemporary operating systems. Topics include the management of primary storage, processors, processes, peripheral devices, files, and other common subsystems. *Prerequisite:* 40.330, 40.340, and 42.202.

40.382 Automata, Languages, and Computability (3) Introduction to the fundamental concepts underlying computing. Finite state, push-down, linear bounded automata. Regular expressions, context-free and context-sensitive grammars. Turing machines and computability, universal machines, computable and noncomputable functions, halting problem. Usually offered every fall. *Prerequisite:* 40.350 and 40.341.

40.390 Independent Reading Course in Computer Science (1–6)

40.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication.

40.460 Introduction to Numerical Methods (3) Introduction to numerical algorithms fundamental to scientific computation. Includes discussion of error, solution of polynomial equations, and solution of systems of algebraic equations. *Prerequisite:* 40.280 and 41.310.

40.490 Independent Study Project in Computer Science (1–6)

Graduate and Advanced Undergraduate Courses

40.520 Algorithms and Data Structures (3) Design and analysis of efficient algorithms. Implementation and manipulation of data structures, including linked lists, stacks, queues, tress, and graphs. Memory management. Internal and external searching and sorting. *Prerequisite:* 40.281 and 40.282 (not open to students with credit in 40.340).

40.521 Design and Organization of Programming Languages (3) Study of desirable features and specifications of programming languages by investigation of data types, control structures, data flow, and run-time behavior of several languages, such as FORTRAN, LISP, Ada, etc. At least one non-Pascal-like language (such as LISP) is studied in detail. Elements of compiling and interpreting. *Prerequisite:* graduate standing and 40.282 (40.520 is recommended; not open to students with credit in 40.341).

40.540 Computer System Organization and Programming (3) Investigation of the structure of a modern computing sys-

tem. Alternative computer organizations are discussed so that students may appreciate the range of possible design choices. Assembly, linking, and loading are presented in detail. The relation between system software and computer organization is discussed. *Prerequisite:* 40.282 and 40.340 or graduate standing and 40.520 concurrently (not open to students with credit in 40.330).

40.541 Computer Architecture (3) Presents the essential notions of computer system design by investigating a wide range of historic, existing, and proposed computer architectures. Topics include meta representation, data representation, instructions and addressing, interpretation and control, memory hierarchies, specialized computers, multiple computers, reliability, and system-design evaluation. *Prerequisite:* 40.540 or 40.330.

40.546 Introduction to Computer Networks (3) An introduction to the basic concepts of computer networks. The architecture of data communication systems, the seven-layer model of a network, and the physical, data link, network, transport, and session layers are explored. Protocol algorithms are considered for the implementation of the various network layers. *Prerequisite:* 40.520 (or 40.340), 40.540 (or 40.330), 41.221 and 42.202.

40.550 Discrete Structures (3) Selection of mathematical topics relevant to computer science, such as sets and relations, graphs, groups and group codes, combinatorics, formal logic, number theory, and finite state machines. *Prerequisite:* 40.350 or equivalent.

40.560 Microcomputer Architecture (3) Fundamental concepts of hardware and software systems for microprocessors and micro-and minicomputers. Topics include digital logic, computer arithmetic, input/output, internal and external memory, peripheral device interfaces, and applications. *Prerequisite:* 40.540 or 40.330.

40.565 Operating Systems (3) Historical background. Operating system functions and concepts: processes, processor allocation, memory management, virtual memory, I/O and files, protection, design, and implementation. Several existing operating systems are discussed. A group project to design and implement a small operating system is usually required. *Prerequisite:* 40.520 and 40.540 (or 40.330, 40.340, and 40.365).

40.566 Introduction to Compilers (3) Design and implementation of compilers. Topics include lexical analysis, syntactic analysis, code generation and optimization, and error recovery. A term project to design and implement a compiler for a small programming language is usually required. *Prerequisite:* 40.521 (or 40.341) and 40.540 (or 40.330).

40.568 Artificial Intelligence (3) Application of computers to tasks usually considered to require human intelligence, such as game playing, problem solving, learning, pattern recognition, natural language understanding, and expert systems. *Prerequisite:* 40.520 (or 40.340) and 40.521 (or 40.341).

40.570 Data Management Systems (3) A survey of the history, principles, design, and applications of database management systems. Topics: basic concepts; storage; the relational, hierarchical, and network approaches; security and integrity; distributed databases; concurrency control. Several existing data-management systems are studied. A project involving design of a small database or (part of) a small DBMS is usually required. *Prerequisite:* 40.520 (or 40.340) and 40.540 (or 40.330).

40.582 Formal Languages and Automata (3) Chomsky hierarchy of grammars. Finite state acceptors and regular expressions. Push-down automata and linear bounded automata. Turing machines and the halting problem. The notion of effective computability. *Prerequisite:* 40.521 (or 40.341) and 40.350 or permission of instructor.

40.584 Computer Graphics (3) Overview of display technology: cathode ray tubes (CRTs), digital control of CRTs, other displays, applications, interactive devices, hard copy, and graphics system design. Graphics software: high-level languages for graphics, programming interactive devices, display files, design of graphics systems, transformations in two and three dimensions, gray scales, color, cropping, and hidden lines. *Prerequisite:* 40.520 (or 40.340), 40.540 (or 40.330); 41.310 is recommended.

40.590 Independent Reading Course in Computer Science (1–6)

Graduate Courses

40.620 Design and Analysis of Algorithms (3) Study of algorithms by category, such as divide-and-conquer, dynamic programming, and state space search, computational complexity, and NP-complete problems. Analysis of practical techniques. *Prerequisites:* 40.520 and 40.550; must have taken the comprehensive examination.

40.646 Computer Network Design and Analysis (3) Design and analysis problems relating to computer communications networks. Capacity assignment techniques are applied to different network topologies. Queuing theory is used to allocate limited network resources. Network design algorithms, routing, and flow control techniques are investigated. *Prerequisite:* 40.546 and 41.501 or permission of instructor; must have taken the comprehensive examination.

40.690 Independent Study Project in Computer Science (1–6)

40.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

40.700 Seminar in Computer Science (3) May be repeated for credit but not in the same term; topic may be the same. *Prerequisite:* must have taken the comprehenisve examination.

40.797 Master's Thesis Seminar in Computer Science (1–6)

Mathematics

Undergraduate Courses

Note: Courses 41.121, 41.122, and 41.123 are intended for students with inadequate background for other courses in mathematics. Placement testing is available from the department. None of these courses fulfills the mathematics requirements for a degree program nor does any carry credit toward distributive requirements. All are usually offered every term.

41.121 Basic Arithmetic (1)

41.122 Basic Algebra (2) An introduction to algebra. Topics include a review of integer and rational numbers; solving linear equations in one or two variables; word problems; polynominals and rational expressions; radicals; the quadrat-

ic formula; some graphing techniques. This course does satisfy the university mathematics competency requirement. It does not satisfy any distributive requirement.

41.123 Intermediate Algebra (1) A review of the properties of real numbers, solving linear equations in one and two variables, polynomials and functions, fractional expressions, exponents, powers and roots, quadratic equations, exponential and logarithmic functions. This course does satisfy the university mathematics competency requirement. It does not satisfy any distributive requirement.

41.150 Finite Mathematics /N (3) Sets, real numbers, solution of equations, inequalities, probability, functions, elementary linear algebra. Applications to biology, business, and social sciences. No credit toward mathematics major. Usually offered every term. *Prerequisite:* Two years of high-school mathematics.

41.170 Precalculus Mathematics /N (3) Fundamentals of algebraic, logarithmic, exponential, and trigonometric functions for students planning to take 41.221. 41.150 and 41.170 may not both be used to fulfill the mathematics requirements for any major program. Usually offered every term. *Prerequisite:* three years of high-school mathematics.

41.211 Applied Calculus I /N (4) Continuity, limits, differentiation, and integration. Applications to biological, social, and environmental sciences and business. Brief study of matrices and matrix operations. No credit toward a mathematics, mathematical statistics, or applied mathematics major, but together with 41.212 meets calculus requirement for applied statistics or computer science majors. Students may not receive credit toward a degree for both 41.211 and 41.221. *Prerequisite:* 41.150 or permission of instructor.

41.212 Applied Calculus II /N (3) Calculus of several variables, matrices, series, and differential equations. Applications to biological, social, and environmental sciences and business. No credit toward mathematics, mathematical statistics, or applied mathematics major, but together with 41.211 meets requirement for applied statistics or computer science majors. Students may not receive credit toward a degree for 41.212 if they have taken 41.222 or 41.223. *Prerequisite:* 41.211 or 41.221.

41.221 Calculus I /N (4) Real numbers; coordinate systems; functions; limits and continuity; differentiation and applications; trigonometric functions; indefinite and definite integration and applications; fundamental theorem of integral calculus. Students may not receive credit toward a degree for both 41.211 and 41.221. Usually offered every term. *Prerequisite:* 41.170 or four years of high-school mathematics.

41.222 Calculus II /N (4) Techniques of integration, calculus of transcendental functions, infinite series, power series representations, and analytic geometry. Usually offered every term. Students may not receive credit for 41.212 if they have taken 41.222. *Prerequisite:* 41.221.

41.223 Calculus III (4) Vectors, functions of several variables, partial differentiation, and multiple integrals. *Prerequisite:* 41.222.

41.310 Linear Algebra (3) Vector spaces, systems of linear equations, solutions by matrices, determinants, linear transformations, and algebraic forms. *Prerequisite:* 41.212 or 41.222 or taken concurrently with 41.222.

41.321 Differential Equations (3) First-order equations; linear equations of higher order; solutions in series; separation of variables in partial differential equations and Fourier series; applications to mechanics, electrical circuits, and biology; topics from numerical methods. Usually offered every fall and summer. *Prerequisite:* 41.223 or taken concurrently.

41.322 Advanced Calculus (3) Point sets in several variables, partial derivatives, Lagrange multipliers, Jacobians, implicit and inverse transformation theorems, quadratic forms, vectors and line integrals, theorems of Green, Gauss, and Stokes. Usually offered every spring. *Prerequisite:* 41.223.

41.390 Independent Reading Course in Mathematics (1–6)

41.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication.

41.490 Independent Study Project in Mathematics (1–6)

Graduate and Advanced Undergraduate Courses

41.501 Probability (3) Algebra of sets; probability in discrete sample spaces; combinatorial analysis; random variables; binomial, Poisson, normal, and other distributions; and applications. Usually offered every fall. Not open for credit for graduate students in mathematics or statistics. *Prerequisite:* 41.212 or 41.222.

41.510 Matrix Theory for Applications (3) Vector spaces, linear transformations, similarity, rational and classical canonical forms, unitary spaces, unitary equivalence, quadratic forms, congruence, rings of matrices, matrix representations of groups and algebras, and applications to statistics, physics, and other fields. Not intended for graduate students in mathematics. Usually offered every summer. *Prerequisite:* 41.310.

41.512, 41.513 Introduction to Modern Algebra I, II (3), (3) Groups, rings, vector spaces and modules, fields, and Galois theory. 41.512 usually offered every fall; 41.513 usually offered every spring. *Prerequisite:* 41.310 or permission of instructor.

41.515 Number Theory (3) Divisibility, fundamental theorem of arithmetic, congruences, arithmetic functions, diophantine equations, quadratic residues, sums of squares, and partitions. Usually offered alternate springs. *Prerequisite:* 41.222.

41.520, 41.521 Introduction to Analysis I, II (3), (3) Analysis in Euclidean and metric spaces, point sets, completeness, convergence, continuity, differentiability, and integration. 41.520 usually offered every fall; 41.521 usually offered every spring. *Prerequisite:* 41.322.

41.540 Topology (3) Topological spaces, continuity, compactness, connectedness, and metric spaces. *Prerequisite:* 41.223 and 41.310.

41.550 Complex Variables for Applications (3) Cauchy's theorem and integral formulas. Residue theorem and contour integration. Conformal mapping. Fourier series, integrals, transforms, and inverse transforms. Laplace transform methods. Usually offered every fall. *Prerequisite:* 41.321 or 41.322.

41.551 Mathematics for Physics (3) Oscillatory systems and normal modes. Eigenvalues and diagonalization of matrices. Wave equation. Vibrating strings and membranes. Orthogonal functions. Heat equation. Laplace's equation. Green's

function. Variational methods. Tensors. Usually offered every spring. *Prerequisite:* 41.550.

41.560 Numerical Analysis: Basic Problems (3) Iterative solution of nonlinear equations. Special methods for Polynomials. Basic theory of polynomial approximation. Usually offered alternative falls. *Prerequisite:* 40.460 and 41.321 or 41.322.

41.563 Selected Topics in Numerical Analysis (3) Topics are selected from linear algebra, differential equations, and numerical approximations, or other areas of algebra and analysis. Usually offered alternate springs. *Prerequisite:* 41.560 or permission of instructor.

41.574 Theory of Probability (3) Random variables, distribution functions, generating and characteristic functions, special distributions and statistics, and limit theorems. Usually offered every fall. *Prerequisite:* 41.223 and 41.501 or permission of instructor.

41.590 Independent Reading Course in Mathematics (1–6)

Graduate Courses

41.620 Analytic Functions I (3) Differentiation and integration of complex-valued functions, analyticity, Cauchy's theorems, Laurent series, singularities, contour integration and residue calculus, conformal mapping, analytic continuation, and Weierstrass's and Mittag-Leffler's theorems. Usually offered alternate falls. *Prerequisite:* 41.521.

41.625 Calculus of Variations (3) Extremization of functionals. Euler, Legendre, Weierstrass, and Jacobi necessary conditions. Sufficient conditions for weak and strong extrema. Extremal fields and Hilbert's invariant integral. Isoperimetric problems and inequalities. Direct methods. Usually offered alternate springs. *Prerequisite:* 41.551.

41.630 Measure and Integration (3) Measurability, integration, and convergence theorems. L_p spaces, modes of convergence, differentiation, and introduction to probability. Usually offered alternate falls. *Prerequisite:* 41.521.

41.654 Partial Differential Equations of Mathematical Physics I (3) Second-order hyperbolic equations, characteristics, Cauchy and Goursat problems, Riemann's method, and quasilinear equations. Legendre transformation, wave equation in n-dimensions, spherical means, and Hadamard's method. Usually offered alternate falls. *Prerequisite:* 41.524 or 41.551.

41.655 Partial Differential Equations of Mathematical Physics II (3) Second-order elliptic, parabolic, and mixed equations, problems of Dirichlet and Neumann, Green's function, potentials of volume and surface distributions, diffusion phenomena, and Tricomi's equation. Usually offered alternate springs. *Prerequisite:* 41.654.

41.690 Independent Study Project in Mathematics (1–6)

41.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

41.797 Master's Thesis Seminar in Mathematics (1–6)

41.799 Doctoral Dissertation Seminar in Mathematics (1–12)

Statistics

Undergraduate Courses

42.202 Basic Statistics /N (4) Classification of data, averages, dispersion, probability, frequency distributions, confidence intervals, tests of significance, nonparametric techniques, simple regression, and correlation. A package of computer programs is used to demonstrate various statistical techniques. Separate sections are available for biology, business, economics, psychology, education, sociology, and government majors. Usually offered every term. *Prerequisite:* 42.202 and junior standing.

42.300 Business Statistics /N (3) Estimation, inference, multiple regression, and correlation. Elementary decision theory. Usually offered every term. *Prerequisite:* 42.202.

42.390 Independent Reading Course in Statistics (1–6)

42.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication.

42.490 Independent Study Project in Statistics (1–6)

Graduate and Advanced Undergraduate Courses

42.502 Introduction to Mathematical Statistics (3) Probability, probability distributions, sampling, sampling distributions, and introduction to the theory of point estimation and statistical inference, including confidence intervals and hypothesis testing. Not open for credit to graduate students in mathematics or statistics. Usually offered every spring. *Prerequisite:* 41.212 or equivalent and 41.501.

42.510, 42.511 Theory of Sampling I, II (3), (3) Mathematical development of basic principles of survey design, including methods for determining expected value, bias, variance, and mean square error; simple random, systematic, stratified, cluster, multistage, and double sampling; unbiased, ratio, regression, and composite estimation; optimum allocation of resources; controlled and other nonsimple methods of selection; introduction to measurement error; and comparison of alternative designs. 42.510 usually offered alternate falls; 42.511 usually offered alternate springs. *Prerequisite:* 42.502 or equivalent.

42.514 Statistical Methods (3) Averages, dispersion, probability, sampling, and approach to normality; simple and multiple regression; tests and confidence intervals for means, proportions, differences, and regression coefficients; nonparametric statistics; and analysis of variance. Usually offered every term. Not open for credit to students who have taken 42.300. *Prerequisite:* 42.202 or equivalent.

42.515 Regression (3) Simple and multiple regression; least squares; curve fitting; graphic techniques; and tests and confidence intervals for regression coefficients. *Prerequisite:* 42.514 or equivalent.

42.516 Design of Experiments (3) Design and analysis of the results of balanced experiments, simple analysis of variance, components of variance, analysis of covariance, and related topics. *Prerequisite:* 42.514 or equivalent.

42.517 Special Topics in Statistical Methodology (3) Alternating topics in statistics treated from an applied viewpoint. Topics include sampling, multivariate techniques, factor

analysis, and time series. May be repeated for credit in the same term; topic must be different. *Prerequisite:* 42.514 or equivalent.

42.519 Nonparametric Statistics (3) Application of nonparametric techniques in the analysis of social-science data, with emphasis on tests appropriate for data having interval, nominal, and ordinal scales. *Prerequisite:* 42.514 or permission of instructor.

42.520 Applied Multivariate Analysis (3) Introduction to multivariate analysis emphasizing statistical applications. Topics include matrix theory, multivariate distributions, tests of hypotheses, multivariate analysis of variance, principal components, discriminant analysis, canonical correlation, multivariate regression, and related topics. Usually offered every fall. *Prerequisite:* 42.514 or equivalent.

42.521 Analysis of Frequency Data (3) Chi-square tests, contingency tables (2×2, $r \times c$, and multidimensional), loglinear models, and other special models. Usually offered every spring. *Prerequisite:* 42.514 or equivalent.

42.522 Time-Series Analysis (3) An introduction to the theory of time-dependent data. The analysis includes modeling, estimation, and testing, alternating between the time domain, using autoregressive and moving average models, and the frequency domain, using spectral analysis. Usually offered alternate springs. *Prerequisite:* 42.515 or 42.520 or permission of instructor.

42.523 Factor Analysis (3) Introduction to factor analysis emphasizing applications of factor techniques. Topics include factor analysis models, matrix and geometric concepts, communality, transformations, direct factor solutions, derived factor methods, rotations, and find factor scores. Usually offered every summer. *Prerequisite:* 42.514 or equivalent.

42.524 Data Analysis (3) An introduction to the topics of exploratory data analysis, including resistant or robust techniques, study of residuals, transformations, graphical displays, and related topics. Usually offered every spring. *Prerequisite:* 42.515 or 42.520 or equivalent.

42.530, 42.531 Mathematical Statistics I, II (3), (3) Distribution and functions of random variables, generating functions, order statistics, point estimation, maximum likelihood, confidence intervals, tests of hypotheses (Neyman-Pearson, likelihood ratio, etc.), linear regression, and analysis of variance. 42.530 usually offered every fall; 42.531 usually offered every spring. *Prerequisite:* 41.322, 42.502 or equivalent, and 41.310.

42.584 Introduction to Stochastic Processes (3) Introduction to random walks, Markov chains and processes, Poisson processes, recurrent events, birth and death processes, and related topics. Usually offered every spring. *Prerequisite:* 41.501 or 42.530 or 41.574.

42.590 Independent Reading Course in Statistics (1–6)

Graduate Courses

42.600 Advanced Mathematical Statistics I (3) Theory of estimation, properties of estimators, large-sample properties and techniques, and applications. Usually offered every fall. *Prerequisite:* 42.531 and 41.574 (may be concurrent).

42.601 Advanced Mathematical Statistics II (3) Mathematical foundations of statistical theory. Special topics in mathematical statistics. Usually offered every spring. *Prerequisite:* 42.600.

42.604, 42.605 Statistical Decision Theory I, II (3), (3) Convex sets and functions, minimax theorem, statistical games, utility and principles of choice, strategies, complete classes, Bayes procedures, principles of invariance, sequential procedures, and related topics. 42.604 usually offered alternate falls; 42.605 usually offered alternate springs. *Prerequisite:* 42.600 (may be taken concurrently).

42.620, 42.621 Multivariate Analysis I, II (3), (3) Multivariate normal distribution, Hotelling's T, Wilks's likelihood ratio criterion, other test statistics, classification problems, principal components, canonical correlation, general multivariate regression and experimental designs, and related topics. 42.620 usually offered alternate falls; 42.621 usually offered alternate springs. *Prerequisite:* 41.510 and 42.600 (may be taken concurrently).

42.640 Statistical Computing (3) An introduction to numerical analysis, computer science, and statistical theory as they apply to random number generation, the Monte Carlo method, simulations, and other aspects of statistical computing. Usually offered alternate falls. *Prerequisite:* 40.520, 41.560, and 42.531.

42.670, 42.671 Linear Estimation I, II (3), (3) General linear hypothesis, least-squares estimation, Gauss-Markov theorem, regression, analysis of variance, multiple comparisons, analysis of covariance, factorial designs, randomized blocks, other experimental designs, and effects of departures from assumptions. 42.670 usually offered alternate falls; 42.671 usually offered alternate springs. *Prerequisite:* 41.510 and 42.600 (may be taken concurrently).

42.674, 42.675 Advanced Probability and Stochastic Processes I, II (3), (3) Limit theorems, infinitely divisible distributions, conditioning, martingales, Markov processes, normal processes, stationary processes, and related topics. 42.674 usually offered alternate falls; 42.675 usually offered alternate springs. *Prerequisite:* 41.574 and 42.584.

42.690 Independent Study Project in Statistics (1–6)

42.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

42.797 Master's Thesis Seminar in Statistics (1–6)

42.799 Doctoral Dissertation Seminar in Statistics (1–12)

Nursing

Undergraduate Courses

46.204 Introduction to Professional Nursing (3) This course focuses on nursing as a profession and its relationship to the health care system. Usually offered every fall and summer. *Prerequisite:* sophomore standing in the School of Nursing.

46.205 The Nursing Process in Health (4) This course focuses on the nursing process and the Roy Adaptation Model. Emphasis is on the maintenance and promotion of health. Students have an opportunity to assess healthy individuals throughout the life cycle. Usually offered in spring and summer. *Prerequisite:* 46.204.

46.209 Growth and Development Through the Life Cycle (3) This course focuses on the physiological, psychological, and social development of the individual throughout the life cycle. An interdisciplinary approach is used. Usually offered every fall.

46.240 Nutrition Needs and Modern Food /N (3) Normal nutrition in relation to the needs of individuals and demands of world population. Current social, ecological, and economic problems are discussed in light of world food needs. Questions about pesticides, food additives, food analogs, "natural" and "organic" foods are considered. Usually offered every term.

46.241 Normal Nutrition (3) Normal nutrition in relation to the nutrient needs of humans. Nutrition assessment, planning and evaluation of diets, adaptive and maladaptive behaviors in choosing foods, food beliefs, and nutrition services available in the community are all given consideration. Usually offered every fall. *Prerequisite:* sophomore standing in the School of Nursing.

46.304 Nursing Care of Individuals I (6) Focus on the individual with impaired health due to problems of mobility, rest, nutrition and regulation within the physiologic and self-concept modes of Roy's adaptation model. Students have the opportunity to use the nursing process to maintain, promote, and restore health of individuals through the life cycle. Usually offered every fall. *Prerequisite:* 46.205 or junior standing in the School of Nursing.

46.305 Nursing Care of Individuals II (4) Focus is on the use of the nursing process with individuals experiencing adaptation problems of elimination, oxygen and circulation, fluid and electrolyte balance, regulatory mechanisms and self concept within the Roy model. A practicum with clients through the life cycle is included. Usually offered every spring. *Prerequisite:* 46.204, 46.205, 46.304.

46.306 Nursing Care of Groups I (3) The course focuses on the adaptation of healthy groups and families. Emphasis is on the role function and interdependent modes within Roy's adaptation model. Students have the opportunity to use the nursing process to maintain and promote health in families and groups. Usually offered every fall. *Prerequisite:* junior standing in the School of Nursing.

46.307 Nursing Care of Groups II (5) Emphasis is placed on the nursing care of the normal family during childbirth. Opportunities are provided in several settings for the use of the nursing process for maintenance and promotion of health during the childbearing phase of the life cycle. Usually offered every spring. *Prerequisite:* 46.306 and junior standing in the School of Nursing.

46.309 Contemporary Professional Nursing (5) Use of frameworks and models in nursing practice, focusing on the intergration and application of the Roy Adaptation Model. Assessing, promoting, and maintaining the adaptation of individuals and healthy families and groups. Physical assessment techniques as tools to be used in the systematic and thorough assessment of the physiologic mode. Professional issues that relate to individuals and families are explored in both lecture and seminar. Usually offered every spring.

46.323 Women's Health /N (3) Designed to provide a better understanding of women and increase interest in the maintenance of health. Topics such as health problems, pregnancy, rape, and abortion are discussed. Usually offered every fall and spring.

46.325 Professional Issues Seminar I (1) The seminar focuses on professional adaptation of the student. Topics are related to 46.305 and 46.307 and include ethical-legal aspects of practice. Usually offered every spring.

46.327 Understanding and Dealing with Sexual Assault /S (3) The psycho-social and medico-legal aspects of sexual assault. Topics include: definitions; myths versus facts; preventive measures; motivations and strategies of the assailant; police, medical, and legal procedures; psychological reactions; and counseling techniques for victim and family. Consideration is given to male, female, adult, and child victims. Usually offered every fall and spring.

46.329 Bioethics /A, S (3) An overview of basic problems and ethical dilemmas facing the health professions and consumers of their services. The nature of moral philosophy as it pertains to biomedical research and medicine. Usually offered every spring.

46.332 Group Work in Nursing (2) Roy's model is used as a framework for examining group theory, group work, and implications for nursing in promoting positive adaptation. Opportunity for application of theory to small group experiences is provided in experiential groups designed to promote professional adaptation. Usually offered every fall. *Prerequisite:* 46.205.

46.360 Introduction to Nursing Research (2) An overview of basic terminology, techniques, and essential components of research with application to nursing. Students are encouraged to improve skills in reading and critiquing of research reports in order to enhance practice. Usually offered every fall. *Prerequisite:* junior standing or permission of instructor.

46.390 Independent Reading Course in Nursing (1–6)

46.404 Nursing Care of Individuals III (4) The course focuses on the adaptation of the individual with depleted health. Emphasis is on the integration of all modes within the Roy adaptation model. Students have the opportunity to use the nursing process to maintain, promote, and restore health in individuals. Usually offered every fall. *Prerequisite:* senior standing in the School of Nursing.

46.405 Nursing Care of Individuals IV (6) A continuation of 46.404 with emphasis on adaptation problems of regulatory, sensory-perceptual, protective mechanisms; fluid and electrolytes, nutrition and elimination. Usually offered every spring. *Prerequisite:* senior standing and 46.404.

46.406 Nursing Care of Groups III (5) The course focuses on the adaptation of families and groups with impaired or depleted health or both. Emphasis is on self-concept, role function, interdependent and physiologic modes within Roy's adaptation model. Students have the opportunity to use the nursing process to maintain, promote, and restore mental health throughout the life cycle. Usually offered every fall. *Prerequisite:* senior standing in the School of Nursing.

46.407 Nursing Care of Groups IV (3) The course focuses on the adaptation of groups and communities. Concepts of epidemiology, public health, and biostatistics are related to the use of the nursing process with population groups. Environmental and health care delivery issues are related to the health of communities. Clinical practicum included. Usually offered every spring. *Prerequisite:* senior standing and 46.406.

46.409 Selected Topics in Nursing (3) Topics of interest to senior nursing students to be offered on a rotating schedule.

Topics include specialized care of the adolescent, gerontological nursing, rural nursing, political activism in nursing, and health education evaluation. Usually offered every spring. *Prerequisite:* senior standing in the School of Nursing.

46.424 Professional Issues Seminar II (1) The seminar focuses on the professional adaptation of the student. Topics are related to 46.404 and 46.406 which are taken concurrently. Usually offered every fall. *Prerequisite:* senior standing in the School of Nursing.

46.425 Professional Issues Seminar III (1) The seminar focuses on the professional adaptation of the student. Topics are related to 46.405 and 46.407 which are taken concurrently. Usually offered every spring. *Prerequisite:* senior standing in the School of Nursing.

46.490 Independent Study Project in Nursing (1–6)

Graduate and Advanced Undergraduate Courses

46.540 Nutrition for Health Fitness (3) The role of nutrition in maintaining health and physical fitness is studied in relation to the responsibilities and opportunities of the manager of health fitness programs. Current food myths, diets for those in athletic programs, and special needs of overweight and underweight clients are included. Usually offered every summer. *Prerequisite:* 15.506.

46.590 Independent Reading Course in Nursing (1–6)

Physical Education

Undergraduate Courses

49.100 Swimming for Nonswimmers (1) This course is designed for students who are unable to maintain themselves in deep water. Students overcome the fear of the water and learn to feel at ease in all aquatic environments while learning basic swimming skills.

49.101 Swimming (1) Instruction in swimming skills and techniques for students interested in perfecting their swimming strokes, endurance, and associated aquatic skills. Course is designed to enhance the basic swimming skills of the student.

49.102 Lifesaving/Lifeguard Training (2) Development of safety skills, use of lifesaving equipment, and techniques of swimming rescues. Satisfactory completion of the course leads to American Red Cross Life-Saving Certificate. Usually offered every spring. *Prerequisite:* 49.270 or valid First Aid and CPR certification; 49.101 or permission of instructor.

49.110 Bowling (1) Development of basic skills in bowling. Usually offered every term.

49.120 Martial Arts (1) Acquisition and development of the basic defensive skills of the martial arts as well as improvement of basic physical condition: endurance, flexibility, and strength. Martial-arts training stresses both physical and mental discipline and development. The history and philosophy of the martial arts is presented in discussions throughout the course.

49.122 Advanced Martial Arts (2) Continuing the study of the martial arts, this course provides a logical progression from 49.120. Further development of the skills and abilities developed in 49.120, as well as the acquisition of more advanced techniques, knowledge, and strategies. *Prerequisite:* 49.120 or permission of the instructor.

49.125 Personal Defense (1) Introduction to the basic principles of self-defense. Emphasis is placed on perfecting the basic skills and techniques in protecting oneself. Physical conditioning, strength, and flexibility are attained, along with the understanding of the legal and psychological aspects involved in personal defense.

49.140 Fencing (1) A general overview of the techniques, strategies, and psychology of foil fencing, with an emphasis on the historic perspectives and traditions from a variety of cultures. There is a split emphasis between developing physical skills and studying the implementation of tactics in all situations inside as well as outside the world of fencing.

49.150 Golf (1) The course is designed for the beginning player. Skill work consists of grip, stance, and swing techniques for putting, short irons, middle irons, and woods. Special emphasis is placed on rules, terminology, and etiquette. The major objective of this course is to prepare the student for a rewarding experience on the golf course.

49.151 Advanced Golf (2) The course is designed for the player with limited skills and playing experience. The class consists of weekly playing rounds at local courses with the instructor. Students are responsible for clubs, transportation, and green fees. Students receive instruction in advanced skills and techniques. Usually offered every fall. *Prerequisite:* 49.150 or previous instruction.

49.170 Recreational Activities (1–3) Development of skills, techniques, and knowledge of selected individual, dual, and team activities with emphasis on seasonal sports. Content varies. May be repeated for credit in the same term; topic must be different.

49.171 Horseback Riding (1) Development of equestrian skills. May be repeated for credit but not in the same term; content must be different. Usually offered every fall and spring.

49.180 Beginning Tennis (1) The course is designed for beginners who have had little or no playing experience and no formal instruction. Students learn the following strokes: forehand, backhand, serve, and lob. A United States Tennis Association Advanced Beginners Certificate is awarded upon satisfactory completion of the course requirements. May be repeated once with permission of the department. Usually offered every term.

49.181 Tennis (1) The course is for students who can play singles and doubles and execute the basic strokes. Instruction includes basic stroke refinement and development of the lob, overhead, spin, slice serve, and other advanced skills. Additional content in rules, background, techniques, and strategy. Usually offered every term.

49.182 Advanced Tennis (2) This course is designed to further the advanced player's game in advanced strokes, strategies, and psychological dimensions while learning the proper teaching techniques for all strokes. Students must intern in a teaching/assisting capacity during the semester. Usually offered every fall. *Prerequisite:* 49.181 or permission of instructor.

49.185 Racquetball (1) This course is designed to develop the fundamental skills, strategies, and techniques of racquetball. Usually offered every term.

49.193 Aquatic Fitness (2) The object of this course is to develop cardiorespiratory fitness through swimming. The theoretical applications of fitness are also included. The course offers an alternative to jogging. Usually offered every spring.

49.195 Principles and Techniques of Weight Training (2) An overview of muscle anatomy, exercise physiology, and biomechanics as they apply to the development of muscle strength. Systems and principles of weight training. Practical experience in strength development through a progressive resistance program. Usually offered every term.

49.197 Aerobic Dance (2) Using aerobic activity to develop and maintain body awareness in five major areas: cardiovascular and muscular endurance, flexibility, muscular strength, and promotion of ideal body composition through activity with music. The goal is the reduction of emotional tension, greater productivity, improved performance, transformation of fat-burning enzyme, and a healthier cardiovascular system. Usually offered every term.

49.200 Lifetime Fitness /S (3) Combines classroom experience with physical activity. Drawing from several disciplines, lecture topics include exercise physiology, nutrition, stress management, the effects of drugs, and other timely topics. Aerobic activity sections provide opportunities at both basic and advanced levels to incorporate knowledge into active experiences. Individualized testing apprises students of their present fitness levels and enables them to set goals for personal improvement. Usually offered every term.

49.210 SCUBA (2) The course provides a balanced curriculum in skin and SCUBA diving, providing practical skill development in the pool and a thorough grounding in the physics, physiology, technology, and history of sport diving. Usually offered every term.

49.211 SCUBA Certification Laboratory (1) Includes five open-water dives in salt and fresh water, additional equipment training, and an introduction to boat as well as shore staging for sport diving. Basic rescue techniques are introduced. The laboratory, in conjuction with the standard course, is sufficient to qualify the student as a certified basic diver under the standards of a nationally recognized certifying organization. Usually offered every term. *Prerequisite:* must be taken concurrently with 49.210.

49.270 First Aid, CPR, and Medical Emergencies /S (3) Training in basic first aid and CPR (Cardio-Pulmonary Resuscitation). Instruction on treatment of wounds, specific and nonspecific injuries, application of bandages and dressings, splinting fractures and dislocations, emergency rescue techniques, etc. Certification by the American Red Cross in Standard First Aid and Basic Rescuer CPR. Usually offered every fall.

49.301 Water Safety /S (2) Two-part course covering the skills necessary for teaching the skills involved in basic swimming and lifesaving/lifeguard training. Satisfactory completion leads to an A.R.C. Water Safety Instructor Certification. Usually offered every fall. *Prerequisite:* Current advanced lifesaving, CPR, and either swimmers ARC certification or ability to pass swimmers test.

49.315 Care and Prevention of Athletic Injuries /S (4) The basic concepts and techniques in the prevention, treatment, and reconditioning of sports injuries. Use and techniques of taping, strapping, and padding. Includes laboratory. Usually offered every spring. *Prerequisite:* 49.270 or permission of instructor.

49.324 Principles and Psychology of Coaching (3) Principles and techniques of coaching athletic teams; emphasis on psychology of teaching and motivating athletes. Usually offered every fall.

49.330 Health and Wellness /S (3) Introductory health science. Making informed personal health decisions. Discussion of current health issues as they apply to students now and in the future.

49.340 Camping and Backpacking /S (3) Methods, techniques, and skills related to camping, backpacking, and hiking. Includes selection of equipment and camp site, orienteering, cooking, and implications for ecology and conservation. Overnight field experience required during course.

49.390 Independent Reading Course in Physical Education (1–6)

49.425 Physiology of Exercise (3) Includes concepts of energy transformation, metabolism, muscular contraction, oxygen debt, cardiovascular performance, and respiratory function in relation to physical activity and exercise. *Prerequisite:* 49.200 or 49.195.

49.490 Independent Study Project in Physical Education (1–6)

Graduate and Advanced Undergraduate Courses

49.590 Independent Reading Course in Physical Education (1–6)

Graduate Courses

49.610 Advanced Exercise Physiology and Testing I (3) Development of skills, techniques, and methods in testing for all physical fitness components as well as familiarization with selected health status appraisal tools. Emphasis on exercise stress testing. Usually offered every fall. *Prerequisite:* permission of the director of the Health/Fitness Management Program.

49.615 Advanced Exercise Physiology and Testing II (3) Development of skills, techniques, and methods in exercise prescription, planning of individualized and group exercise programs, and the effective use of motivational tools. Usually offered every spring. *Prerequisite:* permission of the director of the Health/Fitness Management program.

49.690 Independent Study Project in Physical Education (1–6)

49.790 Research Seminar in Health/Fitness Management (3) Survey of current literature on the various topics of physical fitness, coronary risk factors, nutrition, smoking, and other topics related to health and fitness. Includes a survey of various organizations that are resources for health information, and field trips to selected health and fitness programs or organizations. Usually offered every fall. *Prerequisite:* degree standing in the Health/Fitness Management program or permission of instructor.

49.792 In-Service Training in Health/Fitness Management (3–6) Internships with Employee Fitness Program, fitness centers, or health and fitness organizations of student's choice. May emphasize managerial, clinical, educational, or promotional aspects of Health/Fitness management. Usually

offered every term. *Prerequisite:* degree standing in the master's program in Health/Fitness Management.

Audio Technology

Undergraduate Courses

50.101 Sound, Light, and the Arts /N (3) Sound and hearing. Traditional and electronic music. Light and vision. Color, images, the eye, and the camera. Recording and reproducing sound and light. The broadcast media. Usually offered every term.

50.201 Fundamentals of Audio Technology /N (3) Anatomy of audio components; generation, transmission, and detection of sound; properties of sound; electricity and magnetism with applications to transducers, preamplifiers, amplifiers, tuners, and tape decks; electromagnetic waves, AM, FM, and PM modulation; and elements of AM and FM tuners. Usually offered every term. *Prerequisite:* 50.101 or permission of instructor.

50.202 Audio Technology Laboratory (1) Experiments to accompany 50.201 are performed weekly on loudspeaker directivity, amplifier frequency response, amplifier power output, tape recorder frequency response, wow and flutter, and distortion measurements. Usually offered every term. *Prerequisite:* 50.101 and 50.201 taken concurrently; audio technology majors or permission of instructor.

50.230 Acoustics (3) Properties of sound, speech and music, reflection and diffraction. Open-air theatres, sound-absorptive materials and special constructions, and principles of room acoustics and design. Noise control, reduction of airborne and solid-borne noise, control of noise in ventilating systems, sound-amplification systems, and auditoriums. Usually offered every fall. *Prerequisite:* 50.201.

50.310 Analog Synthesizer (3) Principles of voltage control and application to standard synthesizer components such as oscillators, envelope generators, sequencer, filters, and amplifiers; tape recorder use; multitrack compositions, loops, editing, basic effects, and established styles; electronic approach to composition; patching, synchronization, and timbral and dynamic control. Course includes practice on the modular Moog System 55 studio synthesizer. Usually offered every fall. *Prerequisite:* 50.201

50.312 Analog Electronics I (3) Electronic fundamentals needed for understanding audio and AC circuits. Voltage, resistance, inductance, capacitance, simple circuit theory, tuned circuits, power supplies. Usually offered every fall. *Prerequisite:* 50.201, 50.219 or 51.221, and 51.223.

50.313 Analog Electronics II (3) Continuation of 50.312. Semiconductor devices, electron tubes, basic amplifiers, operational amplifiers, and oscillators. Usually offered every spring. *Prerequisite:* 50.312.

50.320 Digital Synthesizer (3) Musical applications of microprocessors. Digital control of analog synthesizers, computer/studio interfacing. Waveform synthesis (direct, Fourier, F.M.) and analysis. Music composition languages. Hands-on experience with instrument design and micro-and macroprogramming. Usually offered every spring. *Prerequisite:* 50.310.

50.322 Analog Electronics Laboratory I (2) Experiments to accompany 50.312. Experiments will cover DC circuits, resistance, capacitance, inductance, AC circuits, diodes, vacuum tubes, and amplifiers. Usually offered every fall. *Prerequisite:* 50.312, which may be taken concurrently.

50.323 Analog Electronics Laboratory II (2) Experiments to accompany 50.312. Experiments will cover transistor characteristics, transistor amplifiers, emitter followers, integrated circuit operational amplifiers, oscillators, and pulse-shaping circuits. Usually offered every spring. *Prerequisite:* 50.313, which may be taken concurrently.

50.340 Electronic Troubleshooting (3) The system approach to electronic equipment troubleshooting. Students learn how to use electronic test equipment, read block and level diagrams and schematics, and isolate and repair electronic equipment. Usually offered every fall. *Prerequisite:* 50.313 or permission of Audio Technology adviser.

50.360 Radiotelephony I (3) Basic law, basic operating practice, basic radiotelephone, audio amplifiers, radio-frequency amplifiers, transmitters, AM and FM, and antennas. Usually offered every fall. *Prerequisite:* 50.313.

50.384 T.V. Studio Operations (3) Principles and practice in operation of television studio equipment. Television waveforms and system fundamentals, studio camera chain, video and audio signal distribution, and operation of studio equipment. Laboratory. Usually offered every fall. *Prerequisite:* junior standing and permission of instructor.

50.390 Independent Reading Course in Audio Technology (1–6)

50.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication.

50.410 Sound Studio Techniques and Practice (3) Multitrack recording techniques as applied to professional sound studio systems. Studio consoles, magnetic tape recording, signal-processing equipment, room acoustics, noise reduction systems, multitrack record alignment, and test equipment. Usually offered every fall. *Prerequisite:* 50.313 or permission of instructor.

50.420 Advanced Sound-Studio Techniques (3) Studio set-up, microphone placement, acoustic theory, console patchbay theory and practice, signal processing devices, equalizers, and limiters. Students participate in a recording session in which the set-up and the operation are individually assigned and evaluated. Usually offered every spring. *Prerequisite:* 50.410.

50.480 Radiotelephony II (3) Advanced radiotelephony. Audio broadcast systems, modulated transmitters, receivers, antennas and transmission lines, frequency measurements, and ultra-high frequency circuits. Usually offered every spring. *Prerequisite:* 50.313 or permission of instructor.

50.490 Independent Study Project in Audio Technology (1–6)

50.491 Internship (1–6)

Graduate and Advanced Undergraduate Courses

50.500 Digital Electronics (4) Binary number systems, transistor fundamentals, transistor switching circuits, diode and TTL logic circuits, Boolean algebra, digital integrated circuits, Karnaugh maps, elements of digital circuit design, A/D

and D/A conversion, and applications. Laboratory included. Usually offered every fall. *Prerequisite:* 41.170, 50.313 or 51.221 and 51.223, or permission of instructor.

50.501 Microprocessors (4) Review of hexidecimal number system, binary mathematics, and programming. Microcomputer architecture, the MPU instruction set, addressing modes, the stack, index register, masks, and interrupts. Assembler and machine language. I/O operations, fundamentals, keyboards, peripheral interface adaptors, A/D conversion, and applications. Hands-on microprocessor training. Usually offered every spring. *Prerequisite:* 50.401, and 40.260 or 40.280.

Physics

Undergraduate Courses

51.106 Astronomy /N (3) How big is the universe? What is in it? How old is it, and how long will it endure? Is there (other) intelligent life in space? Nonmathematical discussion of relativity theory, normal stars, pulsars, and black holes. Space travel: manned and unmanned explorations of the solar system. Usually offered every term.

51.110 The Ascent of Man: A Scientific Viewpoint /N (3) The role of science in human cultural evolution from the earliest times to the present. Scientific discoveries and their application to human affairs are emphasized. Achievements of Copernicus, Darwin, Mendel, and Einstein, among others, are considered. Course is designed for non-science majors and is nonmathematical.

51.204 Population, Resources, and the Energy Crisis /N (3) Population growth; models of population evolution; energy resources; fossil fuels, nuclear fission and fusion power, and solar energy; air and water resources; climate alterations, planned and unplanned; food resources; and the "green revolution," food from the sea, pesticides, and fertilizers.

51.206 Physics and Paraphysics /N (3) Science has two major dimensions: content and process. This course focuses on the process of science as applied to paraphysical topics including ESP, Kirlian photography, astrology, biorhythms and biofeedback, and plant communication. The validity of these phenomena is tested by objective experimentation in the laboratory.

51.210 Elementary Physics /N (3) A one-semester introduction to the main ideas in physics. Particular emphasis is placed on mechanics; electricity and magnetism; relativity. Examples are drawn from everyday experiences. Usually offered every term. *Prerequisite:* two years of high-school mathematics.

51.218 College Physics I /N (3) Mechanics, heat and sound: Newton's laws of motion, work and energy, rigid body dynamics, elasticity, fluids, periodic motion and sound, heat and thermodynamics. Satisfies premedical requirements. Usually offered every fall. *Prerequisite:* 41.150 or 41.170, or three years of high school mathematics and permission of instructor.

51.219 College Physics II /N (3) Electricity and magnetism, light and atoms: electrostatics, currents and circuits, magnetic fields, AC circuits, electromagnetic waves, optics and optical instruments, atoms and quantum physics. Satisfies premedical requirements. Usually offered every spring. *Prerequisite:* 51.218.

51.220 University Physics I /N (3) Basic concepts in mechanics, heat, and sound; vectors, rectilinear motion, Newton's laws; work and conservation of energy, conservation of momentum, rotational motion, elasticity, harmonic motion, fluids, heat, and thermodynamics; wave motion and acoustical phenomena. Calculus treatment. For students who want a more analytical course than 51.218/219. Usually offered every fall. *Prerequisite:* 41.221 or concurrent registration.

51.221 University Physics II /N (3) Basic concepts in electricity and magnetism, light, and atomic structure: Coulumb's law, electric fields, potential, AC/DC circuits; magnetic field, induction, electromagnetic waves; propagation/reflection/refraction of light, lenses interference and diffraction, photoelectric effect, Bohr atom, quantum physics. Calculus treatment. For students who want a more analytical course than 51.218/219. Usually offered every spring. *Prerequisite:* 51.220 and 41.221.

51.222 General Physics Laboratory I (2) Experiments in mechanics, heat, and sound to accompany 51.218 or 51.220. Microcomputers employed in data analysis and BASIC programming. Usually offered every fall. *Prerequisite:* 51.218 or 51.220 or concurrent registration.

51.223 General Physics Laboratory II (2) Experiments in electricity, magnetism, light, and optics to accompany 51.219 or 51.221. Microcomputers employed in data analysis (BASIC) programming. Usually offered every spring. *Prerequisite:* 51.219 or 51.221 or concurrent registration.

51.390 Independent Reading Course in Physics (1–6)

51.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication.

51.452 Advanced Laboratory (3) Lectures and laboratory. Students plan and complete experiments in electronics and other laboratory techniques that fit their background and previous training. May be repeated for credit but not in the same term; topic may be the same. Usually offered every spring. *Prerequisite:* 50.313 or equivalent and 40.260 or 40.280.

51.490 Independent Study Project in Physics (1–6)

51.501 Modern Physics (3) Electrons, protons, and structure of matter: an historic view. The Rutherford-Bohr atom and elements of quantum mechanics and their applications to atomic, nuclear, and solid state physics. Usually offered every spring. *Prerequisite:* 51.221, 41.222 or 41.212, or permission of instructor.

51.502 Classical Mechanics (3) Vector analysis. Newton's laws and dynamics of particles. Harmonic oscillator. Conservative systems. Gravitational forces and potential. Central fields and the motions of planets and satellites. Relativity. Elements of mathematical physics. Usually offered every spring. *Prerequisite:* 51.501, 51.223, and 41.321 or concurrent registration or permission of instructor.

51.503 Electricity and Magnetism (3) Electrostatics, potential theory, magnetic fields, Faraday and Ampere's laws, dielectric magnetic media, and Maxwell's equations. Usually offered every spring. *Prerequisite:* 51.501, 41.223, and 41.321, or permission of instructor.

Graduate and Advanced Undergraduate Courses

51.530 Mechanics (3) Newtonian dynamics; Hamilton's principle and Lagrange's equations; central force motion; rigid body dynamics; oscillating motion; Hamilton's equations and phase space; Hamilton-Jacobi equation. Usually offered every fall. *Prerequisite:* 51.502.

51.551 Electromagnetic Waves and Optics (3) Maxwell's equations and electromagnetic waves, reflection and refraction, interaction of light with matter, interference phenomena, and Huygen-Kirchoff diffraction theory. Fresnel and Fraunhofer diffraction, grating, and optical instruments. *Prerequisite:* 51.503.

51.565 Basic Concepts in Statistical Physics (3) Statistical description of matter. Distribution functions, phase space, ensembles, statistical interpretation of thermodynamics, effects of quantization, and Maxwell-Boltzman, Fermi-Dirac, and Bose-Einstein statistics. Usually offered alternate springs. *Prerequisite:* 51.503.

51.570 Introduction to Quantum Mechanics (3) Wave mechanics, Schroedinger equation, potential barriers and potential wells, harmonic oscillator, operators, eigenfunctions, eigenvalues, degeneracies, angular momentum, hydrogen atom. Usually offered every fall. *Prerequisite:* 51.501.

51.572 Atomic Physics (3) Review of elementary quantum mechanics, time-independent and time-dependent perturbation theory, magnetic moments, spin, identical particles, multi-electron atoms, transition rates and selection rules, and collision theory. *Prerequisite:* 51.570.

51.573 Nuclear Particle Physics (3) Systematic presentation of physics of nuclei and nucleon and their interactions. The two-nucleon force, systematics of stable nuclei, radioactivity, and the fundamental interactions. *Prerequisite:* 51.570.

51.574 Introduction to Solid State Physics (3) Crystallography, lattices, thermal properties of solids, free electron theory of metals, band theory of solids, conductivity of metals, insulators and semiconductors, dielectric and magnetic properties, and superconductors. *Prerequisite:* 51.570.

51.590 Independent Reading Course in Physics (1–6)

Graduate Courses

51.600 Quantum Electronics I (3) Basic theory concerning the interaction of atomic systems with electromagnetic radiation. Includes review of basic quantum principles; matrix theory of quantum mechanics; review of classical radiating dipole, radiation damping and atomic lifetimes; quantization of radiation; modern interpretation of Einstein A and B coefficients. Offered alternate falls. *Prerequisite:* 51.570.

51.601 Quantum Electronics II (3) Optical resonators and laser cavities; three and four level laser models; rate equations pulsed and CW lasers; Real laser systems; nonlinear optics and second harmonic generation; index matching coherent optics. Offered alternate springs. *Prerequisite:* 51.600.

51.630 Mechanics I (3) Newton's laws of motion. Variational principles and Lagrange's equations. The two-body central force problem. Scattering in a central force field. Kinematics of rigid body motion. The rigid body equations of motion. Methods of solving rigid body problems. Usually offered alternate falls. *Prerequisite:* 51.530.

51.631 Mechanics II (3) Small oscillations. Hamilton equations of motion. Canonical transformations: integral invariants, symmetry principles, and infinitesimal transformations. Liouville's theorem. Hamilton-Jacobi theory and wave mechanics. Lagrange and Hamilton formulations for continuous systems. Usually offered alternate springs. *Prerequisite:* 51.630.

51.650 Electromagnetic Theory I (3) Electrostatics: experimental laws, Gauss's and Green's theorems, and Poisson and Laplace equations. Magnetostatics: Law of Biot and Savart, Ampere's Law, and vector potential. Time-varying fields: Faraday's law, Maxwell's equation, and Poynting's theorem. Radiating systems: Lienard-Wiechert potentials, multipole fields, and wave scattering. Usually offered alternate falls. *Prerequisite:* 51.551.

51.651 Electromagnetic Theory II (3) Einstein's two postulates; Lorentz transformations; Thomas precession; invariance of electric charge and covariance of electrodynamics; relativistic Hamiltonians and Lagrangians; Darwin and Proca Lagrangians; conservation laws and motion in uniform fields; and scattering and absorption of radiation by a bound system. Usually offered alternate springs. *Prerequisite:* 51.650.

51.670 Quantum Mechanics I (3) Experimental background to quantum mechanics. Schroedinger equation, eigenfunctions and eigenvalues, one-dimensional problems, WKB approximations, general principles of wave mechanics, central potentials, hydrogen atom, and scattering. Usually offered every fall. *Prerequisite:* 51.572 or concurrent registration.

51.671 Quantum Mechanics II (3) General formalism of quantum theory; angular momentum and spin; identical particles and stationary perturbations; time-dependent perturbation theory, and variational method. Usually offered every spring. *Prerequisite:* 51.670.

51.690 Independent Study Project in Physics (1–6)

51.691 Internship (1–6)

51.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

51.780 Research Seminar in Physics (3–6) Various topics in advanced physics with contents selected according to need. May be repeated for credit either in the same term with a different topic or not in the same term with the same topic. *Prerequisite:* permission of instructor.

51.795 Research Training Seminar (1–6)

51.797 Master's Thesis Seminar (1–6)

51.799 Doctoral Dissertation Seminar (1–6)

Government and Public Administration

Political Science

Undergraduate Courses

53.100 Introduction to Political Science (Honors) (3–4) A two-semester course combining a study of major political thinkers and political science methodology with an analysis

of contemporary political issues. Emphasis on American and comparative political institutions and behavior. Usually offered every term. May be repeated for credit but not in the same term; topic may be the same. *Prerequisite:* invitation.

53.120 Introduction to American Politics /S (3–4) Pluralism, constitutional bases of government, political participation and elections, and the major national institutions involved in policy making. Fall semester includes field trips to acquaint students with the policy process in Washington. Usually offered every term.

53.200 Great Issues of Political Thought /A, S (3) Philosophical controversies about major political problems and concepts, such as justice, freedom, authority, community, and dissent. Usually offered every term.

53.220 Presidential Politics (3) The role of the presidency in the political system, including presidential power, personality, response to public opinion, and interaction with the Cabinet, the bureaucracy, Congress, and political parties. Usually offered every term.

53.221 Elections and Voting Behavior (3) The role of public opinion, interest groups, social movements, and political parties in plural societies. Problems in political participation, communication, representation, and leadership. Usually offered every term.

53.230 Comparative Politics: Change, Leadership, Participation /S (3) Basic concepts used to compare political systems and to understand political change. The nature of politics, power and authority, political order and change, and participation. Usually offered every term.

53.231 Third-World Politics /S (3) Political order and change in selected countries in Africa, Latin America, and Asia, emphasizing nation building, ideology, development, and the role of the military.

53.240 Metropolitan Politics /S (3) The growth of cities and metropolitan areas. Evolution of the city and its surrounding areas as a focus of public policy. Analysis of decision-making techniques, intergovernmental relations, and ethnic politics. Implications of financial resources and suburban attitudes on metropolitan politics and policy making. Usually offered every term.

53.250 Law and the Political System /S (3) Basic concepts of law and the American legal system. Analysis of the role of courts in the policy-making process. Problems of law enforcement and the correctional system. Usually offered every term.

53.300 Modern Political Thought (3) Works of major political theorists from the sixteenth to the twentieth century and their application to current questions of theory and method. Included are Machiavelli, Hobbes, Locke, Montesquieu, Rousseau, Mills, Hegel, Marx, and others. Usually offered every term.

53.301 Classical Political Thought (3) An in-depth approach to theory beginning with the pre-Socratics and extending through the Platonic dialogues, Aristotle, Roman civil theory, and major medieval trends of thought. Usually offered every fall.

53.302 American Political Thought /A, S (3) Concepts and theories on the nature and operation of American politics and government. Usually offered every spring.

53.310 Introduction to Political Research (3) An introduction to political science research, including the logic of analysis, research design, and the basics of quantitative analysis. Application of gathering data and of analytic and statistical techniques to contemporary political problems. Usually offered every term. *Prerequisite:* one course in political science.

53.320 Political Behavior (3) Social and psychological approaches to the study of voting behavior and elite decision making. Topics include the nature and sources of political beliefs and values, and small-group behavior. Usually offered every term. *Prerequisite:* an introductory course in American politics, psychology, or sociology.

53.321 Congress and Legislative Behavior /S (3) Congressional behavior, Congress as an institution, and the role of Congress in policy making. Field research on Capitol Hill. Usually offered every term. *Prerequisite:* 53.120.

53.322 American Political Parties (3) Party organization, the party in the electorate and government, party reform, and the future of American parties. Research on parties in Washington. Usually offered every term. *Prerequisite:* 53.120 or 53.221.

53.323 Government and Public Policy /S (3) Analysis of the policy-making process. Special focus on domestic areas such as energy, environment, health, education, welfare, and economics. Recommended as a prerequisite for seminars on the politics of policy formation. Usually offered every term. *Prerequisite:* 53.120.

53.330 Politics of Industrial Societies (3) Comparative study of participation, public policy, and policy making in industrial societies. The effects of technology and science on values and social change. Usually offered every fall.

53.331 Interdependence, Scarcity, and Power /S (3) Political and administrative issues raised by the growing interdependence of nations confronting global scarcities of essential commodities. The politics of scarcity. Usually offered every spring. *Prerequisite:* one course in economics and one in international relations or comparative politics.

53.350 American Constitutional Development (3) The nature of constitutionalism and the role of constitutional interpretation; judicial power and review. Supreme Court decisions and their effect on the development of the American political system. Usually offered every term. *Prerequisite:* 53.120 or 53.250 or 53.302.

53.351 Civil Rights and Liberties (3) Analysis of Supreme Court decisions concerning civil liberties. Emphasis on the First and Fourteenth Amendments, including constitutional doctrines, current trends, and prospective problems. Usually offered every term. *Prerequisite:* a course in American politics, political theory, or public law.

53.390 Independent Reading Course in Government (1–6)

53.391 Internship (6) Specially arranged with the director of undergraduate academic counseling in interest groups, congressional offices, and government agencies. Weekly seminar. Usually offered every term. May be repeated for credit within the same term; topic must be different. *Prerequisite:* second-semester sophomore standing.

53.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication.

53.401 Communism, Fascism, and Democracy (3) The background and major issues of twentieth-century political thought; the concept, nature, and functions of ideology; and major contemporary doctrines. Usually offered every fall. *Prerequisite:* a course in history of ideas, philosophy, or theory recommended.

53.403 Politics and the Cinema (3) Through analysis of the images and symbols inherent in contemporary motion pictures, students are able to consider not only the developed political ideologies, but also the psychological dimensions of political action and inaction. Usually offered every spring.

53.420 The Politics of Social Change (3) A critique of the capacity of the American political system to accommodate the demands of a post-industrial society. An examination of the process of fundamental and consciousness change including a critique of alternative agents of change, such as ideological movements of the right and left, ethnic and class movements, protest and violence, and neighborhood movements. Opportunities for field study. Usually offered every fall. *Prerequisite:* 53.120 or permission of instructor.

53.430 Authoritarian Regimes: Generals, Presidents, and Kings /S (3) Politics, theory, and practice of modern totalitarian and authoritarian systems. Communism, fascism, nazism, corporatism, and praetorianism. Usually offered every fall. *Prerequisite:* a course in comparative politics or a relevant history course.

53.431 Revolution and Violence /S (3) Revolution and violence are looked at from an individual perspective. The empirical theories of social psychology and psychoanalysis are used to investigate the discontent that leads to attempts at violent political change. *Prerequisite:* a course in comparative politics or political behavior.

53.438 Italian Political Thought since World War II (3) A study of major Italian political institutions, political movements, and leaders. The course consists of classroom lectures and on-site seminars led by current Italian political leaders. Taught in Rome. Usually offered every term.

53.440 Urban Affairs Seminar (3) Field research, class presentations, and readings on contemporary urban problems. Decentralization, citizen participation, urban bureaucracy, and service-delivery systems. Usually offered every fall.

53.442 Field Study in State Government (3) A study of policy making in states, focusing on the governors and legislatures. Trips to nearby state capitals. Usually offered every fall. *Prerequisite:* 53.120 or 53.240.

53.489 CLEG Seminar (3) Selected topical issues cutting across the disciplines of communication, law, economics, and political science. Primarily for students majoring in SGPA's interdisciplinary major in CLEG (Communication, Legal institutions, Economics, and Government). Examples of issues are communication law and regulation, First Amendment rights and the media, United States trade policy. Usually offered every spring. May be repeated for credit, but not within the same term; topic must be different.

53.490 Independent Study Project in Government (1–6)

53.491 Undergraduate Internship (6) Specially arranged with the director of undergraduate academic counseling in interest groups, congressional offices, and government agencies. Weekly seminar. Usually offered every term.

53.492 Seminar for Teaching Assistants (3–4) Exclusively for those who serve as teaching assistants in the Washington Laboratory, this course focuses on curriculum planning, group dynamics in classroom and field-trip settings, role differentiation, and evaluation of student performance. In addition, it is intended to enhance leadership and communication skills. Usually offered every fall. *Prerequisite:* permission of instructor.

53.499 Honors Research in Political Science (3)

Graduate and Advanced Undergraduate Courses

53.500 Marxian Social and Political Thought (3) Marx's contribution to social and political science, economics, and revolutionary theory. Primary texts.

53.501 Contemporary Social Theory (3) A political science perspective on contemporary work in psychology, economics, sociology, and other social sciences. Usually offered every spring.

53.502 Politics of the Middle East (3) Politics of the modern Middle East. Deals with legitimacy in crisis in Arab politics, the rise of Jewish nationalism and politics of Israel, the Arab-Israeli conflict, and international rivalry over the Middle East. Usually offered every fall.

53.510 Survey Research Methods (3) Training and experience in question wording, sampling, interviewing, coding, keypunching, and computer analysis. A telephone survey is conducted during the semester. Usually offered every spring.

53.520 Campaign Management Institute (4) This practicum in electoral campaign management is both an intensive and an extensive treatment of campaign organization, strategy, and techniques, with an emphasis on recent technological developments. Seminars (conducted by campaign practitioners), presentations, field work, and campaign simulations are used to develop and refine successful campaign strategies and techniques. Usually offered every spring and summer. *Prerequisite:* 53.120.

53.521 Advanced Studies in Elections (3) Seminars on such issues as campaign management, campaign finance, and elections and voting behavior. May be repeated for credit in the same term; topic must be the different. *Prerequisite:* SGPA major or graduate standing.

53.522 Studies in Political Behavior (3) Examples are personality and politics, and political socialization. *Prerequisite:* six hours of relevant course work in political science or a related discipline.

53.524 Congressional Studies (3) Examples are Congress in transition, information sources on the Hill, congressional-executive relations, legislative research skills, and legislative rules and procedures. May be repeated for credit in the same term; topic must be different.

53.525 Congress and the Executive (3) Relations between the Congress and the executive branch (President and bureaucracy) with respect to Congressional oversight, legislative support of Presidential programs, institutional liaison arrangements between Congress and the executive, and reforms in Congress bearing on the changing relationship between the two branches. Usually offered every spring.

53.526 U.S. Intelligence Community (3) This course examines the agencies which make up the intelligence community and activities in which those agencies engage: collection of intelligence, counterintelligence, covert action, and analysis. The sources of conflict among members, direction and management of the community, secrecy and public control, and proposals for reform are also covered. Guest participants from research institutes and government; independent authors. Usually offered every spring.

53.530 Comparative Political Theory (3) A study of political theory in Asia, Latin America, Arab Cultures, communist nations, and in Africa; emphasis on comparative analysis. Usually offered every spring. *Prerequisite:* a course in political theory or comparative politics.

53.533 Community Change in the Third World (3) Issues of community autonomy, national authority, and community decision making. Case studies of selected communities in Third-World nations and the role of international agencies in community change. Usually offered every spring. *Prerequisite:* a course in comparative politics or international relations.

53.534 Soviet Union and Nuclear War (3) This course focuses on Soviet perceptions of the U.S. threat and Soviet strategic capabilities and nuclear war strategy. Specific topics include U.S. strategy and force levels, Soviet weapons-acquisitions decision making, strategic forces, C3, civil defense, and nuclear targeting policy. Detailed scenarios concerning how Soviets might choose to fight a nuclear war are examined. Usually offered alternate falls.

53.540 Political Parties, Interest Groups, and Lobbying (3) The roles, functions, and changing nature of political parties and interest groups in American politics, the impact of political party reforms on the parties, and the ways in which parties and interest groups shape public policy. Usually offered every spring.

53.550 The Cuban Revolution (3) An examination of the social, economic, and political roots of the Cuban revolution of 1959 and the changes brought about in Cuban politics and society as a result of the revolution. Usually offered every fall.

53.560 Intergovernmental Relations (3) The political, fiscal, and administrative relationships which help to shape the complex intergovernmental system. Federal, state, and local and other jurisdictions are examined concerning their effect on intergovernmental systems. *Prerequisite:* 53.120 for undergraduates.

53.561 Urban Planning (3) The tools and practice of urban planning and its role in shaping the urban environment. Topics include long-range, comprehensive planning; neighborhood adaptations; new towns; planning for rural development and economically depressed regions; and planning for housing, transportation, and community facility programs. Usually offered every spring. *Prerequisite:* 53.120 or 53.240 for undergraduates.

53.570 British Politics (3) The British political system from 1945 to the present. British political parties; Parliament; the civil service; problems of class and race, foreign policy, and industrial relations. Usually offered every spring. *Prerequisite:* undergraduate students, an undergraduate course in comparative politics; graduate students, 53.630.

53.590 Independent Reading Course in Government and Political Science (1–6)

Graduate Courses

53.600 Modern Political Theory (3) Political science as systematic inquiry. Works of political theorists from Machiavelli to the twentieth century; applications to current questions of theory and method. Usually offered every term.

53.602 American Political Thought (3) Historical and conceptual analysis of the major political thinkers and ideas from the Puritans to the present, with emphasis on their influence on the institutional development of the American political system. Usually offered every term.

53.610 Introduction to Quantitative Methods in Political Science (3) Application of techniques of bivariate analysis to measurement of political behavior; emphasis on techniques relevant for political scientists and students of public administration. Usually offered every term.

53.611 Political Research (3) Analysis and investigation of political and social problems. Emphasis on theory construction as a guide to research formulation, methods of research, and empirical testing of research questions. Usually offered every spring. *Prerequisite:* 53.650.

53.612 Conduct of Inquiry I (3) Concepts, approaches, and methodologies of research in political science and public administration; probability, sampling; quantitative data analysis, , including hypothesis testing and estimation; qualitative data analysis and measures of association. Usually offered every fall. *Prerequisite:* admission to the Ph.D. program or permission.

53.613 Conduct of Inquiry II (3) Continuation of 53.612: the use of bivariate and multivariate analysis in political and administrative research; analysis of organizational decision models. Usually offered every spring. *Prerequisite:* admission to Ph.D. program or permission.

53.614 Political and Administrative Behavior (3) The use of survey research and case studies for the study of political and administrative behavior. Instruction in the use of the computer as an aid in political and administrative research. Usually offered alternate falls. *Prerequisite:* admission to Ph.D. program or permission.

53.630 Comparative Politics of Developed Nations (3) An introduction to the study of comparative politics, including methods of analysis and conceptual frameworks relevant to an understanding of the structures and processes of political systems in developed nations. Usually offered every fall.

53.631 Comparative Politics of Developing Nations (3) An introduction to the comparative study of governments and political change in the Third World. Topics include development and underdevelopment, cultural pluralism, political integration, nationalism and other ideologies, and the role of the military. Case studies are included. Usually offered every spring.

53.637 Comparative Politics: Countries (3) Special topics dealing with the Soviet Union, Western Europe, the Middle East, Africa, Communist China, Japan, and others.

53.650 Political Analysis (3) Methods of scientific analysis, including research formulation, hypothesis generation and testing, quantitative analysis, and computer techniques. Usually offered every fall.

53.651 The Legislative Process (3) The function of the legislative branch in the American system. Emphasis on Con-

gress and comparison with state legislatures. Usually offered every spring.

53.652 The Presidency and the Executive Branch (3) Analysis of presidential roles and of the function of the federal executive branch. Presidential personality, executive-legislative relations, and policy formation.

53.654 Political Behavior (3) An examination of the determinants of voting behavior, such as personality, beliefs and attitudes (including issue opinions and conceptual sophistication), political socialization, small groups and communication. Some attention to institutional and normative considerations. Uses survey research and case studies. Usually offered every fall.

53.656 Voting Behavior, Elections, and Campaigns (3) Political participation and behavior in U.S. primaries and elections, management of campaigns, mass media, and political organizations.

53.674 Constitutional Law and Politics (3) Involvement of American courts in such issues as legitimacy, conflict resolution, and representation; courts as political actors with respect to federalism; powers and limitations of government; advancement of individual and group interests and rights.

53.682 Foundations of Policy Analysis: Metropolitan and National (3) Distributional effects, externalities, and the role of risk and uncertainty in policy analysis. Criteria for choice, normative roles for analysis, and using information and social welfare criteria in making policy decisions. Usually offered every term.

53.690 Independent Study Project in Government and Political Science (1–6)

53.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

53.710 Seminar in American Politics (3) Analysis of the operation of the Presidency and the legislative branch and the impact of interest groups and parties on public policy. Topics vary, but the course concentrates on the design of research and critical examination of works in the field. Usually offered every term. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* admission to Ph.D. program or permission.

53.720 Seminar in Policy Analysis (3) Analysis of policy formation and implementation; different theories on the role of government in society; the science of program evaluation. Topics vary, but the course concentrates on the design of research and critical examination of works in the field. Usually offered every term. May be repeated for credit but not within the same term; topic must be different. *Prerequisite:* admission to the Ph.D. program or permission of instructor.

53.799 Doctoral Dissertation Seminar in Political Science (1–12)

Public Administration

Undergraduate Courses

54.241 Bureaucracy in the Modern World (3) An examination of nineteenth-and twentieth-century perspectives on the growth and functions of large-scale formal organizations. The course provides a basic understanding of how and why bureaucratic institutions have become almost pervasive in modern societies. Usually offered every fall. *Prerequisite:* 53.120.

54.260 Administrative Politics /S (3) An introduction to American public administration and the executive branch of government. Emphasis on the politics of administration and on the relationship of the bureaucracy with clientele groups, Congress, the White House, and the public. Usually offered every term.

54.343 Governmental Management (3) An introduction to the theory and practice of managing governmental agencies at the national level. Concentrates on administrative structures and processes. Examines the development of the federal bureaucracy and the potential for change in future directions on administration, hiring, and programs. Usually offered every fall. *Prerequisite:* 53.120.

54.344 Managing State and Local Governments (3) A survey of the theory and practice of managing state and local governments. Includes a review of the background against which structure and administrative changes have been introduced into managing local self-governing jurisdictions. Usually offered every spring. *Prerequisite:* 53.120.

54.345 The Law of Public Administration (3) This is a survey course intended to familiarize the student with the legal concepts and practices that have defined and continue to shape governmental administration. It begins with a perspective on the rule of law in American society and the impact of law on the individual. Usually offered every spring. *Prerequisite:* 53.120.

54.444 Governmental Budgeting (3) An introduction to the financial and economic issues and problems that emerge in administering, budgeting, and financial management. Intended as a basic familiarization. Usually offered every spring. *Prerequisite:* 53.120.

54.445 Managing Human Resources in the Public Sector (3) A survey of the various approaches to managing people in large, complex organizations. The emphasis is on understanding the role of the individual in establishing and implementing organizational goals and tasks. Usually offered every spring. *Prerequisite:* 53.120.

Graduate and Advanced Undergraduate Courses

54.590 Independent Reading Course in Public Administration (1–6)

Graduate Courses

54.601 Methods of Problem Solving I (3) The use of analytical techniques to solve problems in policy analysis and public administration. Defining problems, choosing appropriate techniques, and understanding the limits of quantitative approaches. Usually offered every term.

54.602 Methods of Problem Solving II (3) Continuation of 54.601. Students improve their ability to analyze and solve public problems using analytical techniques. Usually offered every term. *Prerequisite:* 54.601.

54.604 Public Program Evaluation (3) Introduction to the elements of policy and program analysis for public program managers. Normative criteria for program evaluation; sys-

tematic strategies for assessing and measuring the effects of program elements and policy changes; and logic and limitations. Usually offered every spring and alternate summers.

54.608 Comparative Administrative Systems (3) An examination of governmental administrative systems in Europe, North and South America, Asia, and Africa. The focus is on these institutions as subsystems of national and international economic and political systems. The emphasis is on the comparative analysis of administration in capitalist industrialized nations, the socialist nations, and the Third World. Usually offered every spring.

54.609 Studies in Policy Analysis: Governmental Structures (3) Theories and techniques of policy analysis as applied to issues of governmental administration structure and process, including issues such as size, centralization and decentralization, professionalization and its effects, and reorganization. Usually offered every fall. *Prerequisite:* 54.601 or 53.682.

54.610 Public Management (3) Problems of management in public agencies: the activities of public managers; the different kinds of government agencies, their settings and tasks; the administrative methods used by public managers; and the applicability of these methods under various conditions. Usually offered every term.

54.611 Organization Planning and Control (3) An introduction to planning theory. Efforts at governmental planning in the United States, techniques used to develop and implement organization planning and control systems, and individual and group resistance to planning and the implications of this for public administration. Usually offered every year. *Prerequisite:* 54.610 or equivalent.

54.612 Politics of Administration (3) The external activities of public agencies; their relations with other agencies, legislative bodies, interest groups, citizens, advisory committees, and other levels of government. Administrative ethics and the mechanisms for holding public administrators accountable, e.g., legislative oversight, sunshine and sunset laws, reorganization, and the press. Usually offered every year.

54.613 Administration of International Programs (3) Organizational and administrative problems of program management in an interdependent world. The administration of government programs in developing countries and the management of international organizations. The effects of development programs and the consequences of alternative management strategies. Usually offered every fall.

54.614 Development Management (3) The problems of administering public programs in developing countries and the methods by which development projects are carried out. For foreign students who will be returning to developing countries as well as for Americans interested in international administration. Usually offered every spring.

54.616 Legal Issues in Public Administration (3) An introduction to legal issues facing public managers. After an introduction to the legal basis of public administration, including the empowerment process, administrative procedures, and judicial review, students focus on legal issues in client relations, administrative ethics, personnel management, and general administration. Usually offered every term.

54.617 Managing State and Local Government (3) This course examines the role of state and local governments in a changing economy and changing federal system. Students address the historical and legal contexts; state and local government structure, communication, planning, implementation, and performance measurement. Emphasis is on practical skills and tools. Usually offered every term.

54.618 Management Workshop (3) Professional training in management skills such as effective writing, group and personal interaction, and computer applications. Along with other designated workshops, laboratories, and institutes, the course satisfies the management-skills requirement in the M.P.A. program. May be repeated for credit in the same term; topic must be different. Usually offered every term.

54.619 Studies in Governmental Management (3) Topics include reorganization, forecasting and managing change, and administrative problem solving. Usually offered every term.

54.620 Seminar on Career Development (2) This, the first course in the Key Executive Program, focuses on executive development through the process of career and life planning. Participants examine their values, interests, and past accomplishments and prepare their own career-development plans for the future. Participants also explore career development as an element of personnel management, examining employee participation and motivation, the stages of life and career development, and the management of transitions. Usually offered every fall. *Prerequisite:* open only to participants in the Key Executive Program.

54.621 Executive Management (3) Based on the profession of public administration and relevant contributions from the business world, this course provides instruction in the principles of managing programs, projects, and other large-scale organizational activities. Classical and modern approaches to executive management are analyzed in areas including planning, organizing, staffing, program implementation, evaluation, and control. The different characteristics of government organizations are emphasized, along with the constraints that these create for public executives and the ways in which they can respond. Usually offered every fall. *Prerequisite:* open only to participants in the Key Executive Program.

54.622 Leadership for Key Executives (3) Focusing on the leadership skills of each member of the class, this course is designed to sharpen the capabilities of key executives to lead and manage other personnel. Key executives examine their own managerial style, methods of communication, techniques of motivation, delegation of work, and approaches to group leadership. Class exercises are used to illustrate research findings from the behavioral sciences. Usually offered every fall. *Prerequisite:* open only to participants in the Key Executive Program.

54.623 Executive Problem Solving (3) In this course key executives study the methods for gathering and analyzing information in ways that lead toward more effective and accurate decisions. Specific techniques for analyzing public policies and evaluating agency performance are examined. During this course each key executive develops a prospectus for analyzing a program or activity within his or her own agency. Usually offered every summer. *Prerequisite:* open only to participants in the Key Executive Program.

54.624 Budgeting and Financial Management (3) The use of the executive budget as a device for management planning and control is the focus of this course on public finan-

cial management. Key executives develop their skills in understanding different budgetary systems, the elements of budget review and execution, various strategies and tactics employed by participants in the budgetary process. Usually offered every spring. *Prerequisite:* open only to participants in the Key Executive Program.

54.625 Analysis and Evaluation Practicum (3) Key executives apply the principles taught in the program to administrative policy issues within their own agencies. Under the guidance of individual faculty advisers, participants conduct their own research, develop a written analysis of their findings, and participate in an oral defense of the methodology, conclusions, and implications of their projects. May be repeated for credit, but not within the same term. Usually offered every term. *Prerequisite:* open only to participants in the Key Executive Program.

54.626 Legal Issues in Public Administration (3) This course deals with the legal basis of government authority and the way in which legal processes authorize yet limit executive action. Using statute and case law, key executives study the delegation of legislative power, rule-making, administrative appeals, and judicial review. Attention is focused on the legal issues in which key executives are most likely to become involved. Usually offered every fall. *Prerequisite:* open only to participants in the Key Executive Program.

54.627 Politics, Policy-Making, and Public Administration (3) Key executives examine the relationship of the legislative process, Congressional oversight, and EOP/OMB review and approval to the administration of government policy. They study response to pressure groups, clientele groups, and the general public. Executives also address their relationship to political executives, the political basis of government organization, and the difficulties of interagency coordination. Usually offered every spring. *Prerequisite:* open only to participants in the Key Executive Program.

54.628 Executive Skill Modules (2) Participation in this program sequence is designed to improve the practical skills that top-level executives use on their jobs. Among the modules available to participants are computer literacy for executives, executive speaking, effective writing, and executive health and fitness. Usually offered every summer. *Prerequisite:* open only to participants in the Key Executive Program.

54.629 Symposium on Executive Management (3) This course focuses on the integration of the public executive role with the work of the organization from the macro, or institutional, perspective. As the capstone course, it focuses on the perspectives of executive management effectiveness that emerge from the four Key Executive Program study tracks. Usually offered every spring. *Prerequisite:* open only to participants in the Key Executive Program.

54.630 Public Managerial Economics (3) Microeconomic theory as a framework for understanding the problems of public managers. Resource scarcity, consumer behavior, production, cost, economics of efficient management, operation of product markets under competition and monopoly, labor markets, market failure, and public goods. Usually offered every term.

54.631 Financing Government Services (3) The theory and practice of public finance and revenue administration. Emphasis on state and local government. Efficiency and equity criteria, externalities, public goods, interjurisdictional spillovers, user charges, grants-in-aid, and various kinds of taxes. Methods of financing are related to kinds of services. Usually offered every term. *Prerequisite:* 54.630 or equivalent.

54.632 Governmental Budgeting (3) Why budgeting exists, how it works, and who the main actors are. Decision-making theories; resource allocation strategies; program evaluation methods; quantitative aids; legislative and intergovernmental relations; organization and personnel needs; and economic ramifications of alternative fiscal and spending priorities. Usually offered every term.

54.633 Public Financial Management (3) An introduction to the fundamentals of financial management in government agencies, including the background necessary to understand basic concepts of government accounting, auditing, the budget cycle, budget execution, fund management, and financial statements. Usually offered every term.

54.636 Public Financial Analysis (3) How to analyze the financial health of state and local governments and other public organizations and develop remedies for financial problems. Financial condition is related to expenditure, revenue and borrowing decisions, the economic base and needs of the community, capital markets, public employees, and the overall economic system. Usually offered every fall. *Prerequisite:* two courses in public financial management.

54.637 Public Managerial Macroeconomics (3) An introduction to macroeconomic theory and applications as a basis for understanding the financial environment of public management. Basic models for short-and long-run forecasting of revenue and expenditures. The business cycle and political theories for explaining fiscal patterns at the federal, state, and local levels. Credit markets, interest rates, and debt management. *Prerequisite:* 54.630.

54.639 Studies in Financial Management (3) Topics include regulatory policy, commercial banking, and public policy. Usually offered every spring.

54.640 Leadership for Human Resource Development (3) This course deals with significant theories of leadership and human motivation that have shaped current applications in human resources. Emphasis is on those aspects of humanistic psychology most applicable to individual and group behavior in management. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.641 Methods of Problem Solving for Human Resource Development (3) An introduction to quantitative methods of analysis and problem solving. Students learn about different applications to training and organization development such as assessing training needs, evaluation designs, and survey techniques. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.642 Organization Dynamics for Human Resource Development (3) This course focuses on the structure and dynamics of organizations as complex systems. It also emphasizes the interaction of technology and environment with organizational action. Topics include organizations as dynamic open systems, organizational design and structure, contingency theories of organization, conflict and coordination in organizations, and the relationship of the individual and the organization. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.643 Financial Management for Human Resource Development (3) Financial analysis as a management tool. Em-

phasis is on budgeting techniques, pricing, fund accounting, and financial statements. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.644 Managerial Economics for Human Resource Development (3) An introduction to microeconomic theory as a framework for understanding the problems of managers. Resource scarcity, consumer behavior, production, cost, economics of efficient management, operation of product markets under competition and monopoly, labor markets, market failure, and public goods are examined. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.645 Performance Appraisal and Productivity for Human Resource Development (3) Performance appraisal is mandated by the Civil Service Reform Act. This course deals with the basic elements of the process, including goal setting, individual and organizational performance measurement, coaching and counseling, and productivity improvement for both unionized and nonunionized employees. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.646 Consultation Skills for Human Resource Development (3) This course provides students with the opportunity to practice consultation with local clients. Students develop their skills in client contact, contracting, diagnosis, intervention, feedback and follow-up, team building, and the delivery of services to a client, and become clearer about their own consultation style and level of expertise. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resource program.

54.647 Career Development for Human Resource Development (3) The course begins by building a community support system for learning. In the second phase, students work on their personal career development and life planning. In phase three, students are introduced to career development programs in organizations and how they relate to the productivity of individuals. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.648 Training Design and Facilitation for Human Resource Development (3) This course develops training skills and understanding of the basic theories of laboratory education and group dynamics. Students diagnose their training style and its effectiveness; learn about needs assessment techniques; develop design skills; and test their diagnostic skills. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.649 Studies in Human Resource Management (1–3) Rotating topics, including international human resource development; conflict resolution for human resource development; and building effective work teams for human resource development. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.650 Leadership for Public Management (3) Analysis of individual students' potential or actual leadership style and capacity in public agencies through group experiences, relevant theory, and individual learning instruments. Usually offered every term.

54.652 Building Effective Work Teams (3) Strategies and techniques from the behavioral sciences that are used to improve the effectiveness of individuals, teams, and organizations. Data collection and feedback, group process observation, team building, conflict management, and structural interventions are reviewed and practiced along with current applications, trends, and professional issues. Usually offered every fall.

54.653 The Individual and the Organization (3) This course focuses on three major frameworks for understanding productive and dysfunctional behaviors in organizations: the behavioral, B.F. Skinner; the psychoanalytic, Sigmund Freud and Carl Jung; and the humanistic, Carl Rogers. Students have an opportunity to apply these theories to their own lives and work situations. Usually offered every spring.

54.654 Organization Diagnosis and Intervention (3) An examination of the structure and behavior of organizations. Emphasis on methods of inquiry as well as the boundaries, roles, and forces which influence human behavior in organizations. Usually offered every spring. *Prerequisite:* one foundation-level course in organization development or equivalent.

54.655 Consultation Skills for Managers (3) Theory and practice in building skills to help students address "people problems" creatively; focus on various aspects of the consultation role, such as building a climate for change, interviewing skills, generating and analyzing information, and principles for giving and receiving help. Consulting as an aspect of the manager's responsibilities. Usually offered every spring. *Prerequisite:* one foundation-level course in organization development or equivalent.

54.658 Conflict Resolution for Managers (3) The nature of conflict and its use in interpersonal, intergroup, and interorganizational settings. Identification of alternative approaches to dealing with conflict, early identification of incipient conflict, prevention of destructive conflict, and skills needed to help others seeking to resolve conflict among themselves. *Prerequisite:* one foundation-level course in organization development or equivalent.

54.661 Administrative Behavior (3) Human problems and behavior in organizations and methods of dealing with these problems. The psychological basis of individual behavior, group behavior, human motivation, power, communication, conflict, and organizational change are among the topics discussed. Usually offered every year.

54.662 Performance Appraisal and Productivity (3) Performance appraisal is mandated by the Civil Service Reform Act. This course deals with its basic elements, including goal setting, individual and organizational performance measurement, coaching and counseling, and productivity improvement among both unionized and nonunionized employees. Usually offered every fall. *Prerequisite:* 54.610 and 54.650.

54.665 Public Personnel Administration (3) Policies and managerial processes for dealing with governmental personnel, including staffing, personnel development, classification, performance appraisal, equal employment opportunity, and labor-management relations. Usually offered every year.

54.667 Labor Relations in Public Employment (3) Changing relationships among public employers, employees, and organizations of public employees; methods and implications of collective bargaining in the public sector. Usually offered every spring.

54.668 Training Design and Facilitation (3) Basic theories of training, management development, laboratory educa-

tion, and group dynamics. Students put theories into practice by designing learning programs, assessing learning needs, developing evaluation designs for training, and carrying out training designs under faculty guidance. Students also explore philosophical and ethical issues in the fields of training and employee development. Usually offered every spring.

54.669 Studies in Human Resources and Organization Development (3) Selected topics in human resource management and organization development: career development, equal opportunity employment, organization theory, human problems, performance appraisal systems, and current issues in personnel administration. *Prerequisite:* 54.610 and 54.650.

54.674 Practicum (3) The practicum focuses on an organizational problem in human resource development, and uses techniques (qualitative or quantitative or both) in organizational diagnosis, intervention and change, and evaluation. Students work under the guidance of a faculty mentor. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.675 Organizational Planning and Control for Human Resource Development (3) An introduction to planning theory; an overview of efforts at governmental planning in the United States; an analysis of the techniques used to develop and implement organizational planning and control systems; and an examination of individual and group resistance to planning and the implications of this for public administration. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.676 Politics of Administration for Human Resource Development (3) The political context of administration for human resource professionals. Among the themes and principles explored are processes by which policy is formulated and implemented; political approaches to organizational change; political systems from the point of view of function, structure, and process; and formal and informal influence patterns. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.677 Introduction to Organizational Development for Human Resource Development (3) The practice of organizational development. Students are given an overview of the theory, terminology, and literature of organizational development, learn about various diagnostic and intervention tools, and are given the opportunity to plan for the application of what they have learned in their own organizations. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.678 Legal Issues in Public Administration for Human Resource Development (3) EEO and affirmative action, grievance handling, hiring and firing, training, and questions of equity, labor relations, and other issues of likely consultation for organizational management practitioners. This is a study of legal issues associated with the management of public and private sector organizations. Usually offered diagnosis and intervention for human resource development; personnel administration for human resource development; and institute on group and personal interaction for human resource development. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.679 Studies in Human Resource Development (1–3) Rotating topics, including labor relations for human resource development; organizational diagnosis and intervention for human resource development; personnel administration for human resource development; and institute on group and personal interaction for human resource development. May be repeated for credit within the same term; topic must be different. Usually offered every term. *Prerequisite:* open only to participants in the M.S. Human Resources program.

54.687 Urban Management (3) Council-manager relationships, work force staffing and development, the budget and community goals, ethical issues, management control, and external and regional effectiveness. Usually offered every fall.

54.690 Independent Study Project in Public Administration (1–6)

54.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

54.710 Seminar in Public Administration (3) An analysis of the various factors that contribute to the overall performance of the executive branch of government. Topics vary, but the course concentrates on the design of research and critical examination of works in the field. Usually offered every term. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* admission to Ph.D. program or permission of instructor.

54.799 Doctoral Dissertation Seminar in Public Administration (1–12)

Technology and Administration

Undergraduate Courses

55.101 Information and Systems /S (3) An introduction to the roles of information and systems theory in managerial decision making. The course provides the historical perspective for an appreciation of the information-consciousness of our society. Usually offered every term.

55.310 Introduction to Data Processing /S (3) Introduction to data processing and the evolution of the computer as a management tool. Topics include computer hardware and software, programming, systems analysis, data communications systems, management information systems, and the role of computers in society. Usually offered every term.

55.331 Introduction to Computer Design /N (3) A broad introduction to computer architecture. Mathematical and physical concepts inherent in any computer system. Hardware and software aspects of computer systems, including interdependencies of input, output, arithmetic, logic, memory, and control functions of digital computers. Usually offered every term. *Prerequisite:* 55.310. Familiarity with a computer programming language is recommended.

55.334 Programming Concepts I: COBOL /N (3) Basic concepts of computer programming using COBOL. Development of the algorithmic models used in constructing file edit and report programs.

55.337 Problem Analysis /N (3) Fundamental ideas involved in the reduction of problems to computable form. Students learn the elements of a programming language and

construct and program simple algorithms for sorting, arithmetic, and logical games. Usually offered every term. *Prerequisite:* 55.310; may be taken concurrently.

55.362 Fundamentals of Technology of Management /S (3) Basic principles, concepts, and functions of management. How the management process is applied in the private and public sectors in light of changing technology. Usually offered every term. *Prerequisite:* 55.310.

55.363 Management and the Computer /S (3) The computer as a tool of management. Examines the present and future capabilities in the use and exploitation of computer techniques in business. Usually offered every term. *Prerequisite:* 55.362.

55.390 Independent Reading Course in Technology and Administration (1–6)

55.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication.

55.431 Documentation of Programs and Systems (3) The basis and supporting rationale for complete, clear, concise documentation needed by organizational and project managers, analysts, and programmers. Study and application of tools and techniques for technical and management people to establish and evaluate documentation practices. Management commitment and organizational structure. Usually offered every term. *Prerequisite:* 55.363 and 55.434.

55.432 Introduction to Simulation and Modeling (3) Design and implementation of simulation models for systems design and analysis. Emphasis on discrete stochastic systems and real-world business and government problems including resource allocation, queuing, inventory control, and industrial production. Overview of principal simulation languages and their applicability to problem solving. *Prerequisite:* 55.310, 42.300 and competence in a high-level programming language.

55.434 Programming Concepts II: Advanced COBOL /N (3) Development of the algorithmic models used in constructing file maintenance programs. Exposure to the advanced COBOL facilities such as the sort utility, report writer, and external modules. *Prerequisite:* 55.334.

55.435 Advanced Programming Concepts: PL/1 (3) Design and implementation of basic data processing algorithmic models (i.e., file edits, reports, and file maintenance) in PL/1. Exposure to advanced facilities in the PL/1 language. Usually offered every spring. *Prerequisite:* 55.434.

55.436 Computer Operating Systems Management (3) Fundamentals of operating systems management techniques directed toward optimum use of computer systems resources. Concepts of resource allocation and management (scheduling and dispatching of central processor and memory, and input/output management) and data management. Language processors, utility programs, telecommunications, and other system software that interact with the primary functions of the central system. Usually offered every spring. *Prerequisite:* 55.331 and 55.434.

55.439 Senior Seminar in Computer Systems Applications (3) Usually offered every term. *Prerequisite:* completion of at least eight CTA courses, senior standing, and permission of instructor.

55.450 Information Storage and Retrieval (3) Introduction to the application of the computer in handling scientific, technical, and scholarly literature. The role of the modern information center in providing management with relevant and up-to-date information back-up for decision making. Usually offered every fall.

55.460 Applied Systems Design (3) Introduction to the fundamentals of systems development: basic data collection, documentation and analysis methods, procedures and techniques used in the life cycle of the development of a system. Usually offered every term. *Prerequisite:* 55.363.

55.461 Human Factors in Systems Design (3) Examination of human needs in developing, operating, and using information systems. Methods for analyzing the social, organizational, and human aspects of information systems. Usually offered every fall. *Prerequisite:* 55.460 or may be taken concurrently.

55.490 Independent Study Project in Technology and Administration (1–6)

55.491 Internship (1–6) *Prerequisite:* permission of appropriate program director.

Graduate and Advanced Undergraduate Courses

55.511 The Systems Approach (3) The use of a holistic approach for structuring and solving complex decision problems in the public and private sectors. The application of system analytical concepts to the management and theory of organizations. Usually offered every term.

Advanced Courses

55.513 Change and the Managerial Process (3) The historical and cultural bases of conceptions of change and development in societies and social work organizations. Particular attention is given to the role of science and technology in modern, complex, formal organizations; and the role of formal organizations as agents of social, economic, and technological change. *Prerequisite:* 55.511 or previous course work in organization and management theory and behavior.

55.515 Human Relations Aspects of Management Systems (3) Expands awareness of human processes and develops leadership skills in communications and group activities. The effects of human factors in designing, implementing, and managing complex systems. Usually offered every term. *Prerequisite:* 55.511 or permission of instructor.

55.530 Real-Time Systems (3) A survey of the development, uses, and limitations of real-time data-processing systems and the contemporary issues related to managing them. Hardware and software capabilities, teleprocessing concepts, distributed systems, man-machine factors, queuing theory, simulation tools, systems planning and control, security, and privacy. Usually offered every term. *Prerequisite:* 55.606 and 55.630; or 55.310, 55.334, and 42.300.

55.531 Computer Design and Comparative Systems (3) Number systems, Boolean algebra, and the logical design and organization of the digital computer and its functional components. Analysis and comparison of various design alternatives and the major architectural features of current small, medium, and large-scale commercial computer technology. Usually offered every term. *Prerequisite:* 55.530.

55.532 Advanced Programming Management (3) A study of software development. Contemporary techniques and

philosophies of software design and implementaion are examined. Research projects encompass the areas of organizing personnel and stylized techniques of design and implementation. An extensive review of periodical literature is required. Usually offered every fall. *Prerequisite:* 55.310 and competence in FORTRAN, COBOL, or PL/1.

55.533 Concepts in Computer Communication (3) Computer communications and networking. Basic concepts of communication protocols are examined, from simple protocols to support terminal interfaces through various levels of protocol found in modern networks. Usually offered every spring. *Prerequisite:* 55.310.

55.534 Microcomputer Applications for Managers (3) Capabilities and limitations of microcomputer applications. When, where, and how microcomputers should be used to support modern systems. A comparative analysis of the major architectural features of current microcomputers, including software, hardware, peripheral devices, and environmental support requirements. Usually offered every term. *Prerequisite:* 55.310 or equivalent and competence in one programming language.

55.550 Survey of Information Science and Technology (3) Introduction to communication practices in scientific and scholarly fields emphasizing the role of mechanized methods including the computer. Techniques of word processing, such as information storage and retrieval, reprography, and computerized photocomposition. For users of modern data banks and managers of information systems. *Prerequisite:* 55.511 and 55.530.

55.560 Systems Design for Management (3) Organizations as interrelated, complex systems of levels, flows, and processes. Theories and realities of organizations and management are examined for their implications for information systems analysis, design, and implementation. Usually offered every term. *Prerequisite:* 55.511 and 55.530.

55.561 Management of Computer and Information Systems (3) Problems, functions, and requirements of computer and information systems: planning, installation, operation, and organization of computer facilities. Executive interaction in decision-making, planning, and evaluation functions. Usually offered every term. *Prerequisite:* 55.530.

55.570 Management of Research and Engineering (3) Systems approach to the management of research and engineering. The roles of top management and individual project managers are examined. Techniques for research and engineering management (planning and control) are presented and evaluated. Special attention is given to organization and management for innovation.

55.590 Independent Reading Course in Technology and Administration (1–6)

Graduate Courses

55.606 Quantitative Analysis for Information Systems (3) Quantitative tools applied to the solution of problems in applying, managing, and evaluating information technologies, including statistical, operations-research, and modeling techniques. Usually offered every term.

55.630 Introduction to Computer Applications (3) Introduction to computer applications. Topics include current and future computer technology and its effect on managers, computer hardware and software, programming and management issues such as: data-base management systems, computer security, systems analysis, and management information systems. Usually offered every term.

55.633 Programming Systems and Languages (3) Basic attributes of major classes of programming languages and systems. Characteristics that describe basic differences between types of languages emphasized. Roles of various operating systems briefly examined, as well as problems of operating-systems design and implementation. Usually offered every term. *Prerequisite:* 55.511 and 55.530.

55.634 Microcomputer Software (3) Examines many aspects of microcomputer applications and systems software. Covers fundamentals, operating systems, and evaluation and selection of software packages and languages. Commercial software packages are related to the microcomputer as alternate tools of management. An opportunity to examine and compare a number of microcomputer software applications packages. *Prerequisite:* 55.534, which may be taken concurrently with permission of instructor.

55.635 Workshops in Computer Systems Applications (3) Typical topics are: data base management systems, distributed systems, evaluation and selection of computer systems, privacy and security, and performance evaluation. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 55.511 and 55.530.

55.637 Operating Systems (3) Operating-systems concepts for computer systems, including resource allocation, data management, communications management, and performance evaluation. Interactions of an operating system's constituent subsystems and popular methods of implementation. Usually offered every term. *Prerequisite:* 55.633.

55.641 Methods of Operations Research (3) Mathematical techniques of operations research. Linear and nonlinear programming, game theory, and inventory theory. Usually offered every fall *Prerequisite:* 42.502.

55.647 Project Management (3) An introduction to the technology of project planning and management with emphasis on large-scale projects and programs. Sources of information concerning funding organizations. Planning and scheduling techniques including PERT, Gantt charts, LOB, and DELTA charts. Special management problems associated with scientific and technical projects.

55.660 Management Information and Reporting Systems (3) The complexity of an integrated information system and its components. System design, development, application, and evaluation. Philosophies of the manner, use, depth, and breadth of the integrated management information system approach. Usually offered every term. *Prerequisite:* 55.560.

55.661 Telecommunications and Management Information Systems (3) The relationships of data communications and management information systems. The current state of the art and probable future developments in data communications systems. Usually offered every term. *Prerequisite:* 55.530.

55.665 Workshop in Management Information Systems (3) Advanced management information systems applications with emphasis on special projects and case studies. Usually offered every term. *Prerequisite:* 55.660.

55.670 The Politics and Economics of Research and Development (3) Magnitude, characteristics, and politico-economic significance of the research and development economy of the United States and of other countries. Structure and nature of the U.S. research industry. Government-business defense economy. Governmental nonmilitary research. Business and industrial research. Trends and forecasts. National resources allocation and other political and economic problems. *Prerequisite:* permission of instructor.

55.681 Risk Estimation (3) The concept of risk as it applies to individuals, organizations, and societies. The course explores the methods for estimating risk and introduces students to the techniques of applying the methods in natural and technological systems. Offered every fall. *Prerequisite:* 10.607 or permission of director.

55.690 Independent Study Project in Technology and Administration (1–6)

55.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

55.730 Seminar in Computer Systems Applications (3) A synthesis of all aspects of computer systems applications. Involves an intensive review of the literature of the field. Students participate in seminar discussions and produce several research products. Usually offered every term. *Prerequisite:* completion of field courses.

55.760 Seminar in Management Information Systems (3) Understanding and perspective in the theory and substance of management information systems. Critical reading in the literature of the field. Understanding and skills in research methodology. Usually offered every term. *Prerequisite:* completion of field courses.

55.797 Master's Thesis Seminar (1–6) Usually offered every term. *Prerequisite:* completion of field courses and permission of instructor.

Washington Semester

Undergraduate Courses

56.100 Washington Summer Seminar (2) For advance college credit for high-school juniors and seniors. Field study of major components of American national government and the political processes that support and affect it. Selected policy issues. Usually offered every summer.

56.410 Washington Semester in American Government and Politics Seminar I (4) Selected students from the university and cooperating institutions study the U.S. government in action through seminars, conferences, lectures, and guided seminar evaluations of experience. The research project is an individual report prepared under the guidance of the academic directors of the program. Usually offered every term. *Prerequisite:* selection; must be taken concurrently with 56.411 and 56.412.

56.411 Washington Semester in American Government and Politics Seminar II (4) See 56.410. Usually offered every term. *Prerequisite:* selection; must be taken concurrently with 56.410 and 56.412.

56.412 Washington Semester in American Government and Politics Research Project (4) See 56.410. Usually offered every term. *Prerequisite:* selection; must be taken concurrently with 56.410 and 56.411.

56.413 Washington Semester Research Project (4) Independent research project prepared under the guidance of the Washington Semester faculty. May be repeated for credit but not within the same term; content must be different. Usually offered every term. Prerequisite: open to Washington Semester students only.

56.416 Washington Semester in American Government and Politics Internship (4) Open only to students in the Washington Semester program, as arranged with their academic directors.

56.430 London Semester (4) Seminar meetings with British public officials and observers of British politics. Topics in British culture include art and architecture of London taught by British instructors and national and urban British politics. Students enroll in several sections of this course. Usually offered every fall.

56.435 London Semester Internship (4) Students work up to twenty hours a week in British institutions under faculty supervision. Usually offered every term.

56.436 Topics in British Culture and Society (4) The course focuses on ways British society has developed, including similarities and differences with American society, an examination of culture, tradition, and power relationships. The course also introduces students to British art, theatre, film, etc. Usually offered every term.

56.600 Washington Teachers Seminar (0–3) An intensive two-week series of seminars with practitioners and public officials designed to enhance the participants' understanding of American politics. The seminars are supplemented with lectures by full-time American University faculty. Professional workshops are also included in the curriculum. Usually offered every summer. May be repeated for credit, but not within the same term; topic may be the same. *Prerequisite:* undergraduate degree.

Psychology

Undergraduate Courses

57.100 Introductory Survey of Psychology /N, S (3) Survey of various fields of psychology with emphasis on research discoveries. Topical emphases and instructional procedures may vary for different sections; consult the department for this information. Offered every term.

57.110 Behavior Principles (3) Emphasizes the general principles of experimental analysis of behavior, such as reinforcement, punishment, stimulus control, and verbal behavior. Such issues as behavior modification, emotional illness, punishment and law, and social behavior, as well as the social and philosophical issues surrounding the use of behavioral control are considered. Usually offered every term.

57.210 Self-Management /S (3) Principles of cognitive-behavioral self-control for achievement of personal goals. Self-management research is reviewed in weight loss, studying, self-esteem, giving up smoking, drug addiction, depression, time management, and enjoying oneself. Students conduct self-modification projects in group settings. Usually offered every spring and summer. *Prerequisite:* 57.100.

57.250 Child Psychology /S (3) Introduction to development from infancy through adolescence. Emphasis on theory and research in normal development: genetics, growth, and maturation; sensation and perception; motivation; cognitive and social functioning. Usually offered every term. *Prerequisite:* 57.100.

57.303 Perception and Judgment /N (3) An introductory discussion of why things appear as they do. Consideration of the physical character of the world and of our physiological apparatus for sensing it. Emphasis is on the psychological aspects of perception and on the science that studies them. Usually offered every fall. *Prerequisite:* 57.100 and 42.202.

57.307 Crisis Intervention and Telephone Counseling (4) Methods of short-term telephone counseling for a broad range of problems (from loneliness and depression to suicide and other crisis states). Includes practicum experience for which screening and training are required. Topic changes each semester. May be repeated for credit (with permission of the department), but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* 57.100 and 57.330 or 57.350 and permission of instructor.

57.313 Biological Bases of Behavior /N (3) An introduction to the function of the nervous and endocrine systems and their role in sensation, perception, motivation, conditioning, memory, and abnormal behavior. Usually offered every fall. *Prerequisite:* one course in psychology.

57.330 Theories of Personality /S (3) A critical comparison of trait, psychodynamic, cognitive social learning, and humanistic approaches to describing, explaining, predicting, and improving personality. Theories of conflict, development, self-control, frustration, aggression, identification, sex differences, and self-perception are contrasted with research findings in each area for each theoretical approach. Usually offered every term. *Prerequisite:* 57.100.

57.340 Social Psychology /S (3) Individual behavior as influenced by and demonstrated in the presence of other people. Contemporary theory and research in such areas as obedience and leadership, altruism and violence, cooperation and competition, persuasion and attitude change, and attraction and sexual behavior. Usually offered every term. *Prerequisite:* 57.100.

57.350 Abnormal Psychology /S (3) A study of neuroses, psychoses, organic disorders, childhood disorders, etc., through lecture, discussion, films, demonstrations, debates, and dramatizations. Usually offered every term. *Prerequisite:* 57.100.

57.360 The Evolution of Behavior /N (3) Approaches to the study of animal and human behavior with emphasis on the explanation of these behaviors in light of ecology and evolution. Topics include aggression, language, sex differences, intelligence, development, learning, and instinct. Usually offered every spring. *Prerequisite:* 57.100.

57.370 Learning and Behavior /N (3) Research and theory in animal learning. Covers classical and instrumental conditioning. Ethology and biological constraints on learning. Usually offered every term. *Prerequisite:* 57.100.

57.390 Independent Reading Course in Psychology (1–6)

57.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication.

57.430 Human Sexual Behavior (3) Basic physiological knowledge, sex education, sexual myths, premarital and marital sexual behavior, homosexuality, pornography, etc. Emphasis on psychological aspects of sex and sexuality. Usually offered every term. *Prerequisite:* 57.100.

57.470 Introduction to Clinical Psychology (3) The focus is on two major activities of clinical psychologists: assessment and clinical intervention (psychotherapy and program models). Topics also include the functions, history, training, and ethics of the profession. *Prerequisite:* 57.100 and either 57.330 or 57.350.

57.480 Experimental Psychology (4) Data and research methods in core areas of psychology. Review of experimental design. Individual and group experiments. Usually offered every term. *Prerequisite:* 57.100 and 42.202.

57.490 Independent Study Project in Psychology (1–6)

57.491 Internship (3) Practical experience in a professional setting in the metropolitan area. For advanced psychology majors. Usually offered every term. *Prerequisite:* permission of instructor.

57.497 Advanced Topics in Psychology (3) Individual sections cover advanced topics in psychology and vary from semester to semester. Each section is an intensive course in a specialized area of psychology. Enrollment is limited. May be repeated for credit in the same term but topic must be different. Usually offered every term. *Prerequisite:* junior standing, three psychology courses, and permission of instructor.

57.498 Honors Seminar (3) Students participate in supervised research on a review project. The proposal, analysis, and conclusions of this research will be discussed among other honors students as well as with departmental faculty. Honors thesis will be presented at Honors conference. May be repeated for credit but not in the same term; topic may be the same. Usually offered every term. *Prerequisite:* 3.5 grade-point average in psychology, 3.0 grade-point average overall, and junior standing.

Graduate and Advanced Undergraduate Courses

57.501 Physiological Psychology (3) Anatomical and physiological substrata of behavior. Usually offered alternate springs. *Prerequisite:* junior standing, two departmental courses, and permission of instructor.

57.502 History and Systems of Psychology (3) Philosophical and scientific background of modern psychology and contemporary problems of theory construction. Usually offered every fall. *Prerequisite:* 57.100 and senior standing.

57.503 Sensation and Perception (3) Sensory and complex perceptual processes are discussed in light of contemporary theories in research. Knowledge of basic statistics is desirable. Usually offered alternate falls. *Prerequisite:* 57.303 or graduate standing.

57.513 Psychopharmacology: The Effects of Drugs on Behavior (3) Basic principles of pharmacology, drug-behavior interactions, and the effects of prominent psychotropic drugs. While clinical findings are considered, emphasis is on laboratory studies of various drugs. Usually offered every fall. *Prerequisite:* 57.100.

57.514 Industrial/Organizational Psychology (3) Application of psychological principles to the field of work. Topics

include selection, training, evaluation, leadership, motivation, decision making, job attitudes and satisfaction, organizational structure and theory, and human factors. Usually offered every spring. *Prerequisite:* two psychology courses and one statistics course.

57.515 Biopsychology Laboratory Methods (4) Demonstration and practice of commonly used surgical, histological, and electrophysiological methods in biopsychological and neurobiological research. Usually offered alternate springs. *Prerequisite:* permission of instructor.

57.520 The Psychology of Suicide and Life-Threatening Behavior (3) Death, mourning, depression, suicide, and self-destructive behavior are studied from psychological, social, philosophical, religious, legal, and practical viewpoints. Emphasis is on the theoretical, developmental, and clinical aspects of these phenomena, their influence on survivors, interpersonal supports, and on the effect and prevention of suicidal behavior. Literature and experimental research are required. Usually offered every spring. *Prerequisite:* 57.100 and junior standing.

57.525 Clinical Research Practica (3–4) Merges clinical and experimental psychology in lectures, readings, discussions, and practicum experience. Students collaborate with other students in designing, implementing, and assessing the effectiveness and cost of therapies or in assessing the outcomes of applied experiments. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* 57.210 or 57.330 or 57.307 or 57.317 or 57.480 or graduate standing.

57.530 Conditioning and Learning (3) Advanced analysis of operations and principles developed through the systematic study of classical and operant conditioning. Seminar for advanced graduate students in psychology. Topics are primarily in the area of operant conditioning. Usually offered alternate springs. *Prerequisite:* 57.110, 57.370, or graduate standing.

57.535 Behavior Therapy Techniques (3) A survey course that covers the research, theory, and applications of all major behavior therapy techniques. The course covers such topics as systematic desensitization, assertive training, cognitive-behavior therapy, aversive therapy, use of positive reinforcement, exposure and response prevention, token economies, over-correction, ethical issues. Usually offered alternate falls. *Prerequisite:* for undergraduates, permission of instructor.

57.550 Psychological Research I (3) An in-depth examination of experimental design and methods of conducting research in clinical, social, experimental, and biopsychology. Usually offered every spring. *Prerequisite:* 57.480 or graduate standing.

57.551 Psychopathology (3) Case-study seminar on psychopathological behavior. Focus on symptoms and syndromes from conflict/stress-defense model. Usually offered every fall. *Prerequisite:* permission of instructor.

57.560 Advanced Child Psychology (3) Current theoretical and research issues in child psychology. Areas of emphasis include socialization, affective development, and cognitive development. Students, from their readings and discussion, critically analyze existing data and formulate questions for further investigation. Usually offered alternate falls. *Prerequisite:* 42.202, 57.250, and 57.480.

57.570 Behavioral Medicine (3) Acquaints students with psychological theory, research, and practical techniques for maintaining health, preventing dysfunctions, and remediating health problems. Topics include cognitive-behavioral techiques for cardiovascular risk reduction (smoking, obesity, stress, diet), exercise enhancement, time management, adherence to medical regimens, and problems with nervous, respiratory, gastrointestinal, and musculoskeletal systems. Usually offered every fall.

57.590 Independent Reading Course in Psychology (1–6)

Graduate Courses

57.601 Psychological Research II (3) Research practice and preparation of scientific reports. A laboratory-based course which emphasizes the procedures of designing experiments in various areas of psychology: collection, analysis and interpretation of data, and preparation of research reports. Usually offered alternate falls. *Prerequisite:* 57.480 and permission of instructor.

57.609 Ethics and Professional Practices (3) Theoretical and conceptual questions and social problems in the area of ethics and professional practice. Ethical standards, codes, and legislation of psychologists and related professions, and ethical problems of community mental health are examined. Usually offered every summer.

57.630 Systems of Psychotherapy (3) Nonbehavioral approaches to psychotherapy, including psychoanalytic, Rogerian, rational-emotive, Gestalt, and existential approaches. Usually offered alternate falls. *Prerequisite:* permission of instructor.

57.640 Advanced Social Psychology (3) Psychological factors in human social behavior. Examination of research literature with emphasis on design and methodology. Theoretical problems in social behavior and current trends in experimentation. Usually offered every spring. *Prerequisite:* permission of instructor.

57.650 Assessment of Intellectual Functions (3) An examination of representative individual tests and their theoretical bases, and laboratory practice in administering, scoring, and interpreting them. Usually offered every fall. *Prerequisite:* permission of instructor.

57.651 Personality Testing (3) Representative personality tests and projective techniques, with laboratory practice in administering, scoring, and interpreting them. Usually offered every spring. *Prerequisite:* permission of instructor.

57.660 Advanced Theories of Personality (3) A critical comparison of how trait, psychodynamic, social-learning, and phenomenological approaches to personality contribute to theory, research, and therapy. Usually offered alternate springs. *Prerequisite:* graduate standing and permission of instructor.

57.670 Learning and Motivation (3) Research and theory in animal learning, covering classical and instrumental conditioning, and ethology and biological constraints on learning. Usually offered every semester. *Prerequisite:* graduate standing and permission of instructor.

57.680 Practicum Training I (3) Practice in skills related to counseling-psychotherapy by systematic exposure to critical

elements in interviews through supervision and guided observation. Usually offered every fall. *Prerequisite:* permission of instructor.

57.681 Practicum Training II (3) Continuation of Practicum Training I. Usually offered every spring. *Prerequisite:* permission of instructor.

57.682 Practicum Training III (3) Supervision in individual and group psychotherapy from a psychodynamic point of view. Usually offered every fall. *Prerequisite:* permission of instructor.

57.683 Practicum Training IV (3) Continuation of Practicum Training III. Usually offered every spring. *Prerequisite:* permission of instructor.

57.690 Independent Study Project in Psychology (1–6)

57.695 Behavior Therapy Practicum (3) Observation and supervision in individual behavior techniques. Usually offered every spring. *Prerequisite:* permission of instructor.

57.698 Directed Research (3–6) Consult the department. May be repeated for credit in the same term; topic may be the same. Usually offered every term.

57.791 Clinical Seminar in Psychotherapy I (3) Usually offered every fall.

57.792 Clinical Seminar in Psychotherapy II (3) Usually offered every spring.

57.795 Master's Thesis Independent Study (1–6) Usually offered every term. *Prerequisite:* open to graduate students whose thesis proposals have been approved by the department.

57.797 Master's Thesis Seminar (1–6)

57.798 Doctoral Dissertation Independent Study (1–12) May be repeated for credit in the same term; topic may be the same. Usually offered every term. *Prerequisite:* open to graduate students whose dissertation proposals have been approved by department.

57.799 Doctoral Dissertation Seminar (1–12)

Philosophy and Religion

Philosophy

Undergraduate Courses

60.100 Introduction to Logic /N (3) Basic principles of inductive and deductive reasoning. Text and exercises supplemented by readings and discussions in history, philosophy, and applications of logic. Usually offered every term.

60.101 Introduction to Philosophy /A (3) The course develops the ability to discuss issues philosophically by means of a survey of answers given by major philosophers to clusters of questions dealing with the nature of reality, the nature of knowledge, and problems of ethics.

60.200 Selected Basic Topics in Philosophy (3) Topics include great ideas that changed history; moral choices in contemporary society; popular issues in philosophy; philosophy, psychology, and the emotions; and existentialism. May be repeated for credit in the same term; topic must be different. Usually offered every term.

60.221 Philosophy, Politics, and Society /A, S (3) Theories of the nature of society and justification of social institutions. Critical study of such social problems as control of technology and the environment, education, militarism, racism, imperialism, civil disobedience, rebellion, and revolution. Usually offered every spring.

60.223 Moral Issues in Journalism, Business, and Government /A (3) Moral issues ranging from censorship of pornography and objectivity in reporting, to corporate responsibility, the ethics of advertising and business practices, and the organization of technology and labor. The pervading theme of the course is the way of arguing about these issues. Usually offered every term.

60.300 Ancient and Medieval Philosophy /A (3) History of Western philosophy from the earliest period through the sixteenth century. Philosophers and their general cultural milieu. The formation of the classical world view and accommodation of this world picture to requirements of Judaism, Christianity, and Islam. Meets with 60.600. Usually offered every fall.

60.301 Modern Philosophy from Bacon to Hegel /A (3) Modern Western philosophic ideas are studied in relation to the scientific, cultural, and political environment of seventeenth and eighteenth-century Europe. No previous course in philosophy required, but students will find it helpful to have taken 60.300. Meets with 60.601. Usually offered every spring.

60.302 Recent Philosophy since Hegel (3) Philosophy from Hegel to contemporary existentialism and linguistic analysis. Not open to freshmen. Meets with 60.602. Usually offered alternate falls.

60.303 American Philosophy (3) The background and substance of American philosophy since colonial times. The role of philosophical ideas, European and indigenous, in the growth of American culture. Meets with 60.603. Usually offered alternate falls. *Prerequisite:* one course in philosophy.

60.310 The Classical Period (3) Regularly recurring topics: the pre-Socratics, Plato, Aristotle, Neo-Platonism, and Augustine. Meets with 60.610. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall. *Prerequisite:* 60.300 or permission of instructor.

60.311 Modern European Movements (3) Regularly recurring topics: the British empiricists, continental rationalists, Kant, Hegel, and post-Hegelian idealism. Meets with 60.611. May be repeated for credit but not in the same term; topic must be different. Usually offered every spring. *Prerequisite:* 60.301 or permission of instructor.

60.312 Recent and Contemporary Philosophers (3) Regularly recurring topics: Nietzsche, Kierkegaard, Husserl, naturalism, French existentialism, German existentialism, post-existential European philosophy, and analytic philosophy and phenomenology. Meets with 60.612. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

60.313 Studies in Oriental Philosophy (3) Regularly recurring topics: Buddhist philosophy, Chinese philosophy. Meets

with 60.613. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs.

60.320 Ethics (3) The principles of moral evaluation and their relation to factual judgment and individual and social behavior. Evaluation of traditional schools and theories of ethics. Usually offered every fall.

60.330 Aesthetics (3) Philosophical theories of the meaning and value of art in Western culture, illustrated by reference to works of literature, drama, painting, sculpture, architecture, and music. Students majoring in artistic fields are encouraged to do interdisciplinary projects dealing with application of aesthetic theory to materials in their own fields. Meets with 60.630. Usually offered alternate falls. *Prerequisite:* one course in philosophy or permission of instructor.

60.331 Romanticism (3) Themes in philosophical writings of the late eighteenth and early nineteenth centuries, associated with the romantic movement in literature and the arts. Rousseau, de Staël, Kant, Schiller, Fichte, Schelling, Chateaubriand, Schopenhauer, and others. First ten weeks devoted to lecture-discussions on themes in these writings. Students develop projects relating these themes to materials in their own major field of interest. Some of these projects are presented and discussed. Meets with 60.631. Usually offered alternate falls.

60.340 Philosophy of Natural Science (3) Issues about the methodology, justification, and truth of natural science in the context of philosophical issues about the nature of knowledge and the world. Meets with 60.640. Usually offered alternate falls. *Prerequisite:* one course in philosophy or permission of instructor.

60.341 Philosophy of the Social Sciences (3) The nature of explanation, extent of prediction, use of theories, applicability of the methods of natural sciences in the social sciences, and objectivity and value-neutrality of social scientific knowledge. Meets with 60.641. Usually offered every spring. *Prerequisite:* one course in philosophy or permission of instructor.

60.342 Philosophy of Psychology (3) After reviewing traditional philosophical problems concerning mind-body dualism, the course explores the various attempts to formulate a naturalistic theory of human cognition and behavior, including neurophysiological approaches, attempts at computer simulation of behavior, artificial intelligence, and problems of rationality, language, and personal identity. Meets with 60.642. Usually offered alternate falls. *Prerequisite:* one course in philosophy or permission of instructor.

60.350 Modern Deductive Logic (3) Introduction to modern symbolic methods in deductive reasoning. The merits of competing systems and the philosophical issues involved. No special knowledge of mathematics required. Meets with 60.650. Usually offered alternate springs. *Prerequisite:* 60.100 or permission of instructor.

60.352 Epistemology (3) One of the following topics: knowledge and belief, memory and the past, meaning and meaningfulness, thought and feeling, and observation in the social sciences. Meets with 60.652. May be repeated for credit but not in the same term; topic must be different. Meets with 60.652. Usually offered alternate springs. *Prerequisite:* two courses in philosophy or permission of instructor.

60.353 Metaphysics (3) One of the following topics: mind and soul, the concept of freedom, analysis and explanation of action, and metaphysics and metaphilosophy. Meets with 60.653. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* two courses in philosophy or permission of instructor.

60.355 Philosophy of Religion (3) Leading contemporary movements in the philosophy of religion. Meets with 60.655. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

60.386 Selected Topics in Philosophy (3) Themes posed by nonrational challenges to the major scientific and cultural movements in nineteenth-and twentieth-century thought. Emphasis on the relationships between these developments and their artistic, social, and political counterparts. Approved topics are: the irrational, atheism, the demonic, nihilism, and the absurd; consciousness and alienation. Meets with 60.686. *Prerequisite:* 60.101 or permission of instructor.

60.390 Independent Reading Course in Philosophy (1–6)

60.490 Independent Study Project in Philosophy (1–6)

60.498 Honors Project in Philosophy (3–6) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* departmental permisssion.

Graduate and Advanced Undergraduate Course

60.590 Independent Reading Course in Philosophy (1–6)

Graduate Courses

Note: Courses at the 600 level generally meet with courses at the 300 level. Registration at the 600 level implies graduate-level assignments and higher expectations regarding performance.

60.600 Ancient and Medieval Philosophy (3) History of Western philosophy from the earliest period through the sixteenth century. Philosophers and their general cultural milieu. The formation of the classical world view and accommodation of this world picture to requirements of Judaism, Christianity, and Islam. Meets with 60.300. Usually offered every fall.

60.601 Modern Philosophy from Bacon to Hegel (3) Modern Western philosophic ideas are studied in relation to the scientific, cultural, and political environment of seventeenth and eighteenth-century Europe. No previous course in philosophy required, but students will find it helpful to have taken 60.600. Meets with 60.301. Usually offered every spring.

60.602 Recent Philosophy since Hegel (3) Philosophy from Hegel to contemporary existentialism and linguistic analysis. Not open to freshmen. Meets with 60.302. Usually offered alternate falls.

60.603 American Philosophy (3) The background and substance of American philosophy since colonial times. The role of philosophical ideas, European and indigenous, in the growth of American culture. Meets with 60.303. Usually offered alternate falls. *Prerequisite:* one course in philosophy.

60.610 The Classical Period (3) Regularly recurring topics: the pre-Socratics, Plato, Aristotle, Neo-Platonism, and Au-

gustine. Meets with 60.310. May be repeated for credit but not in the same term; topic must be different. Usually offered every fall. *Prerequisite:* 60.600 or permission of instructor.

60.611 Modern European Movements (3) Regularly recurring topics: the British empiricists, continental rationalists, Kant, Hegel, and post-Hegelian idealism. Meets with 60.311. May be repeated for credit but not in the same term; topic must be different. Usually offered every spring. *Prerequisite:* 60.601 or permission of instructor.

60.612 Recent and Contemporary Philosophers (3) Regularly recurring topics: Nietzsche, Kierkegaard, Husserl, naturalism, French existentialism, German existentialism, post-existential European philosophy, and analytic philosophy and phenomenology. Meets with 60.312. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

60.613 Studies in Oriental Philosophy (3) Regularly recurring topics: Buddhist philosophy, Chinese philosophy. Meets with 60.313. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs.

60.630 Aesthetics (3) Philosophical theories of the meaning and value of art in Western culture, illustrated by reference to works of literature, drama, painting, sculpture, architecture, and music. Students majoring in artistic fields are encouraged to do interdisciplinary projects dealing with application of aesthetic theory to materials in their own fields. Meets with 60.330. Usually offered alternate falls. *Prerequisite:* one course in philosophy or permission of instructor.

60.631 Romanticism (3) Themes in philosophical writings of the late eighteenth and early nineteenth centuries, associated with the romantic movement in literature and the arts. Rousseau, de Staël, Kant, Schiller, Fichte, Schelling, Chateaubriand, Schopenhauer, and others. First ten weeks devoted to lecture-discussions on themes in these writings. Students develop projects relating these themes to materials in their own major field of interest. Some of these projects are presented and discussed. Meets with 60.331. Usually offered alternate falls.

60.640 Philosophy of Natural Science (3) Issues about methodology, justification, and truth of natural science in the context of philosophical issues about the nature of knowledge and the world. Meets with 60.340. Usually offered alternate falls. *Prerequisite:* one course in philosophy or permission of instructor.

60.641 Philosophy of the Social Sciences (3) The nature of explanation, extent of prediction, use of theories, applicability of the methods of natural sciences in the social sciences, and objectivity and value-neutrality of social scientific knowledge. Meets with 60.341. Usually offered every spring. *Prerequisite:* one course in philosophy or permission of instructor.

60.642 Philosophy of Psychology (3) After reviewing traditional philosophical problems concerning mind-body dualism, the course explores the various attempts to formulate a naturalistic theory of human cognition and behavior, including neurophysiological approaches, attempts at computer simulation of behavior, artificial intelligence, and problems of rationality, language, and personal identity. Meets with 60.342. Usually offered alternate falls. *Prerequisite:* one course in philosophy or permission of instructor.

60.650 Modern Deductive Logic (3) Introduction to modern symbolic methods in deductive reasoning. The merits of competing systems and the philosophical issues involved. No special knowledge of mathematics required. Meets with 60.350. Usually offered alternate springs. *Prerequisite:* 60.100 or permission of instructor.

60.652 Epistemology (3) One of the following topics: knowledge and belief, memory and the past, meaning and meaningfulness, thought and feeling, and observation in the social sciences. May be repeated for credit but not in the same term; topic must be different. Meets with 60.352. Usually offered alternate springs. *Prerequisite:* two courses in philosophy or permission of instructor.

60.653 Metaphysics (3) One of the following topics: mind and soul, the concept of freedom, analysis and explanation of action, and metaphysics and metaphilosophy. Meets with 60.353. May be repeated for credit but not in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* two courses in philosophy or permission of instructor.

60.655 Philosophy of Religion (3) Leading contemporary movements in the philosophy of religion. Meets with 60.355. Usually offered alternate falls. *Prerequisite:* two courses in philosophy or permission of instructor.

60.686 Selected Topics in Philosophy (3) Themes posed by nonrational challenges to the major scientific and cultural movements in nineteenth-and twentieth-century thought. Emphasis on the relationships between these developments and their artistic, social, and political counterparts. Approved topics are: the irrational, atheism, the demonic, nihilism, and the absurd; consciousness and alienation. Meets with 60.386. *Prerequisite:* 60.101 or permission of instructor.

60.690 Independent Study Project in Philosophy (1–6)

60.702 Graduate Seminar in Philosophy (3–12) Intensive study of selected problems under individual direction. Multiple registrations of three semester hours each for a maximum of twelve hours are permitted during a semester. Topics: history of philosophy, metaphysics, logic, epistemology, philosophy of science, value theory, philosophy of religion, social philosophy, and Eastern philosophy. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* four courses in philosophy and permission of department chair.

60.797 Master's Thesis Seminar (1–6) May be repeated for credit in the same term. Usually offered every term. *Prerequisite:* permission of department chair.

60.799 Doctoral Dissertation Seminar (1–24) May be repeated for credit in the same term. Usually offered every term. *Prerequisite:* permission of department chair.

Religion

Undergraduate Courses

61.150 Introduction to the Old Testament (3) Emphasis on substantive content of the Old Testament. Special attention to historical and cultural background of the text. Usually offered every fall.

61.170 Introduction to the New Testament (3) Literary, historical, and theological study of the New Testament. Particu-

lar attention to Jesus, Paul, and the development of the Christian movement. Usually offered every spring.

61.180 Introduction to Religious Thought /A (3) Investigation of the nature of religion and of methods of studying religion. Emphasis on problems of religion and society, humanity's attempt to understand its nature and destiny, religion and the quest for wholeness, and the question of transcendence in the modern world. Usually offered every term.

61.183 Comparative Religion /A, S (3) Historical-religious study of the world's major religions: Shinto, Confucianism, Taoism, Buddhism, Hinduism, Islam, Christianity, and Judaism. Basic problems in understanding someone else's religion. Films, slide lectures, and guest lectures. Usually offered every term.

61.230 Traditional African Thought /A (3) The traditional African experience in areas of life values, approach to natural phenomena, explanation of life events, and cultural art forms; comparison of this African experience with the Western outlook; and the problem of evaluation of cultural standards. Usually offered every fall.

61.231 Judaism and Christianity (3) Basic issues in biblical and post-biblical literature of Judaism and Christianity, such as nature of covenant, Messiah, kingdom-state, law, and faith. Usually offered every spring.

61.270 Religious Heritage of the West /A (3) Consideration of the contribution of Western religious heritage to the developing ethos of Western society, from Mesopotamian, Greek, and Jewish roots through the rise of Christianity and Islam, the Middle Ages, Reformation, and beginnings of modern secularization. Usually offered alternate springs.

61.300 Contemporary Religious Thought (3) Major currents in nineteenth-and twentieth-century Jewish and Christian religious thought. The origins of religious existentialism, rise of modern atheism, conflict with natural and social sciences, influence of historical-critical method, development of religious liberalism, and the twentieth-century reaction of neo-orthodoxy and "crisis theology." Usually offered alternate falls.

61.305 Philosophies of the East (3) Special world views of Hinduism, Buddhism, Chinese and Japanese thought, and Islam. Emphasis on the development of individual approaches and understanding. Usually offered alternate springs.

61.333 Peace and Change: A Personal and Social Equation (3) Investigation of peace literature (e.g. Lao-tzu, Gandhi, Thoreau, and King), emphasizing programmatic results for individual and social change. Experimentation in small groups. Usually offered alternate springs.

61.342 Freud and Culture (3) Classical psychoanalytic theory and its influence on twentieth-century culture in such fields as anthropology, sociology, religion, and literature. Usually offered alternate springs.

61.360 Jesus: Prophet, Miracle Worker, Madman? (3) An attempt to develop method by which to uncover the life and teachings of the historical Jesus and to compare these findings with other early and recent Jewish and Christian portraits of Jesus. Usually offered alternate falls.

61.361 Paul, the Jew, and Earliest Christianity (3) Analysis of the life and literature of this early Christian with emphasis on his relation both to Pharisaic Judaism and to Hellenistic thought. Modern interpretations are also read. Usually offered alternate springs.

61.370 Islam (3) Hundreds of millions of people adhere to Islam, sometimes described as the world's fastest growing religion. Students examine historical origins, Prophet Muhammad, Quran, and other formative elements underlying the modern Muslim situation. Usually offered alternate falls.

61.371 The Saint: A Systematic Approach (3) A striking part of religious history turns on the spiritual experience of gifted religious specialists, sometines called saints. Discussion and comparsion of the phenomena and spirituality of sainthood to clarify its nature. Usually offered alternate falls.

61.373 Hinduism (3) This amazingly vital, age-old religion has more than once extended its influence as a religion of truly worldwide significance. Origins, early literature, and main expressions of Hinduism (including Yoga, Bhakti, and cult of the Divine Mother) are presented. Students develop topics of their own interest. Usually offered every spring.

61.381 Methodology for the Study of Religion (3) Controversialists argue that either there is or is not something unique about religion, inexplicable in other terms. Methodologies drawn from history of religion itself and from various social sciences (sociology, anthropology, and psychoanalysis) are examined. By exploring both sides of the issue, students develop techniques for study in history of religions. Usually offered alternate falls.

61.386 Topics in Religious Discussion (3) Examination of important problems, thinkers, and issues in classical and contemporary religious thought. Recent offerings have included: Thought of Reinhold Niebuhr, Philosophical Theology of Paul Tillich, Thought of Rudolf Bultmann, God Talk, Problem of God, Social Scientific Study of Religion in Small Group Process, New Religious Movements, Occult World, Johannine Literature, The Catholic Tradition, Prophets and Politics, The Gospels, and Varieties of Early Christianity and Their Modern Counterparts. May be repeated for credit but not in the same term; topic must be different. Usually offered every year.

61.390 Independent Reading Course in Religion (1–6)

61.490 Independent Study Project in Religion (1–6)

61.498 Honors Project in Religion (3–6) Usually offered every term. *Prerequisite:* departmental permission.

Graduate and Advanced Undergraduate Course

61.590 Independent Reading Course in Religion (1–6)

Graduate Courses

61.690 Independent Study Project in Religion (1–6)

61.693, 61.694 Graduate Seminar in Religious Studies (3–12), (3–12) Intensive study of selected problems in religious thought. With faculty permission, student attends a class at the 300 level or above. Student also meets individually with professor for additional tutorial work. Register for 61.694 if graduate degree is in religious studies; 61.693 is for graduate students in other fields who wish to do interdisciplinary work in religious studies. Usually offered every term. *Prerequisite:* departmental permission.

61.797 Master's Thesis Seminar (1–6) Usually offered every term. *Prerequisite:* permission of department chair.

Sociology

Undergraduate Courses

65.200 Introduction to Sociology /S (3) This is a general prerequisite to all 300-and 400-level sociology courses. Fundamental characteristics of social relationships. Culture, personality, population and ecology, social institutions and processes, and cultural change. Usually offered every term.

65.201 Marriage and Family Living (3) Recent changes in the American family; modern dating, mate-selection, engagement, early marital adjustment, communication, money, working wife, sex, and in-law problems. Not open to first-semester freshmen. Usually offered every term.

65.203 Career Education: You and Your Future (2) What to major in and the career to pursue are important decisions a student can and should control. In this course, students learn research and interviewing skills and apply them to selection of a major and exploration of potential career fields. Usually offered every term.

65.204 Jobs and Careers (3) How recent changes in the economy are creating new problems and opportunities. Topics include unemployment and the job market, work satisfaction and alienation, equal opportunity, bureaucratization, deprofessionalization, and unions. Designed to help students understand the work situations they may face. Usually offered every term.

65.280 Sociological Examination of Italy since World War II (3) Examination of significant facets of Italian society in the period since World War II with a comparison of Italian and American experience. Offered only in Rome. Usually offered every term.

65.301 Social Problems /S (3) Theoretical and sociological perspectives on current social problems; for example, medicine, education, racism, terrorism, welfare, sexism, mental illness, population, energy, pollution, alienation, and war. Social problems are examined at four levels: individual, group and community, national, and world-wide. Usually offered every spring and summer. *Prerequisite:* 65.200.

65.302 American Society /S (3) Analysis of contemporary American social institutions. The American social system in historical perspective, its value system, ethnic composition, and formal and informal structures. Usually offered every term. *Prerequisite:* 65.200 or permission of instructor.

65.303 Deviance and Social Control /S (3) Analysis of the relation of social control to social inequality and social change, with deviance studied in this context. Usually offered every term. *Prerequisite:* 65.200 or permission of instructor.

65.320 Introduction to Social Research (3) An introduction to the major research methods in social science, their links to theory and practice, and their use in research projects. Usually offered every term. *Prerequisite:* 65.200 or permission of instructor.

65.330 Social Change and Social Conflict /S (3) Analysis of the causes, processes, and consequences of social change. Examination and analysis of theories of social change. Usually offered every term. *Prerequisite:* 65.200 or permission of instructor.

65.331 Political Sociology /S (3) Analysis of the contributions of classical sociological writers to theory and research in politics. Methods and techniques of examining political behavior and institutions. Usually offered every fall. *Prerequisite:* 65.200 or permission of instructor.

65.332 Law and Society (3) Study of the relationship between social reality and law. Analysis of contradictions between legal norms and social structure in the process of change. Usually offered every spring. *Prerequisite:* 65.200 or permission of instructor.

65.333 Capitalism, Socialism, Communism /S (3) Analysis of contemporary societies. Comparative study of social conditions, institutions, values, and relations among societies. Usually offered every fall. *Prerequisite:* 65.200 or permission of instructor.

65.340 Social Interaction /S (3) Sociological perspective of the relationship between individuals and groups. Socialization roles in small and complex organizations, mass communication, and social movements. Usually offered every term. *Prerequisite:* 65.200 or permission of instructor.

65.342 Social Psychology of Intergroup Tensions (3) Intergroup prejudice and its relation to other aspects of personality and social behavior. Recent research on the determinants of intergroup attitudes. Techniques for the reduction of intergroup tension. Usually offered every spring. *Prerequisite:* 65.200 or permission of instructor.

65.350 Social Inequality /S (3) The social relations of classes, strata, and groupings are studied in their contemporary and historical aspects. The emphasis is both national and international. Usually offered every term. *Prerequisite:* 65.200 or permission of instructor.

65.351 Race and Ethnic Relations /S (3) A focus on what happens when divergent types of persons effect social contact. Racial, ethnic, tribal, national, and religious interactions throughout the world. The processes include conflict, amalgamation, acculturation, assimilation, prejudice, and discrimination. Usually offered every term. *Prerequisite:* 65.200 or permission of instructor.

65.352 Women and Society /S (3) Location and description of women in population. The nature and extent of prejudice and discrimination against women. The significance of female equality to the social order. Usually offered every spring. *Prerequisite:* 65.200 or permission of instructor.

65.360 Sociology of Work /S (3) The application of sociological concepts to the organization and day-to-day processes of work. Work is examined in historical and contemporary perspectives. Motivation toward and resistance to work. Usually offered every fall. *Prerequisite:* 65.200 or permission of instructor.

65.380 Religion and Society (3) Concepts, methods, and techniques in the sociological analysis of religion. Historical, comparative, and functional approaches to religion. Emphasis on European and American Christianity. Usually offered every fall. *Prerequisite:* 65.200 or permission of instructor.

65.381 Social Aspects of Mass Communications (3) An introduction to mass-media research from a sociological per-

spective. Special attention to current empirical research on public opinion, the power of the communications media, and the effects of the media on adults and children. Usually offered alternate springs. *Prerequisite:* 65.200 or permission of instructor.

65.382 The Family /S (3) Varying forms and functions of family organization in different societies. Evolution of American family patterns. Family relations and personality formation. Contemporary social changes affecting family life. Usually offered every fall. *Prerequisite:* 65.200 or permission of instructor.

65.387 Urban Sociology (3) Analysis of contemporary life in cities. Study of development, theories, and problems of urban life. Comparative and research perspectives. Usually offered every spring. *Prerequisite:* 65.200 or permission of instructor.

65.389 Environment and Society (3) Exploration into the relationship between social groups and the physical environment. Focus on the actions and reactions of public and policy groups in identifying and coping with natural and technological problems. Analysis of specific socio-environmental problems and the roles and methods of social scientists and others in social-impact assesment and social change. *Prerequisite:* 65.200 or permission of instructor.

65.390 Independent Reading Course in Sociology (1–6)

65.410 Classical Sociological Theory (3) Historical background of theories, concepts, and methods of sociology. The emergence and characteristics of the most significant sociological systems. Usually offered every fall. *Prerequisite:* 65.200 or permission of instructor.

65.411 Contemporary Sociological Theory (3) An analysis of modern sociological theories and schools of thought. Logic and procedures of theory construction. Usually offered every spring. *Prerequisite:* 65.410.

65.422 Survey Research Methods (3) An overview of survey research advantages and limitations. Practical experience in all phases: design, sampling, questionnaire construction, interviewing, field-work organization, data-file creation, computerized data analysis, and report writing. Offered irregularly. *Prerequisite:* 65.320 or permission of instructor.

65.423 Social Policy Research (3) An overview of major issues in social-policy program evaluation. Types of evaluations and basic research methods appropriate to each. Practical experience in designing and carrying out both qualitative and quantitative evaluations of social programs. Offered irregularly. *Prerequisite:* 65.320 or permission of instructor.

65.490 Independent Study Project in Sociology (1–6)

65.491 Internship (3–6) Internship in social service, social change, and social research agencies. Internships in social research agencies require completion of 65.320. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* 65.200 or permission of instructor.

65.498, 65.499 Department Honors: Senior Year (1–6), (1–6)

Graduate and Advanced Undergraduate Courses

65.530 Macrosociology (3) Historical and comparative analysis of whole societies and their structures, relations among societies, and world systems. Usually offered every fall. *Prerequisite:* graduate standing or three courses in sociology.

65.531 Regional Studies in Social Change (3) Topical courses examining social change in different parts of the world as a cause and consequence of economic development. Emphasis on the social effects of governmental or corporate policies. Examples include Latin America and the Middle East. May be repeated for credit in the same term; topic must be different. *Prerequisite:* graduate standing or three courses in sociology.

65.540 Social Psychology: Sociological Perspectives (3) The relationships between person and group: concepts, theories, and methods. Interaction of social-structure variables and personality development, adult socialization and aging, collective behavior, and intergroup relations. Usually offered every spring. *Prerequisite:* graduate standing or three courses in sociology.

65.550 Studies in Social Stratification and Mobility (3) Class, status, and power relations in society. Caste, estate, social class, and social mobility. Theories and research findings of current importance. Usually offered every spring. *Prerequisite:* graduate standing or three courses in sociology.

65.560 Work: Sociological Perspectives (3) The relationship among social structure, occupational structure, and the kinds of work available. The organization of work and the way people carry out their work. Usually offered every fall. *Prerequisite:* graduate standing or three courses in sociology.

65.590 Independent Reading Course in Sociology (1–6)

Graduate Courses

65.610 History of Sociological Theory (3) Comparative study of major theorists in the nineteenth and twentieth centuries. Usually offered every fall.

65.611 Modern Sociological Theory (3) An analysis of modern sociological theories and major schools of social thought. Problems of theory construction. Usually offered every spring. *Prerequisite:* 65.610.

65.620, 65.621 Social Research I, II (3), (3) Conceptual and procedural aspects of research, with some accent on quantitative methods. Formulation and specification of research questions, development of research designs, and translation of plans into action (measurement, data collection, data processing, and preparation of research reports). 65.620 usually offered every fall; 65.621 usually offered every spring.

65.630 Conflict and Change: Macrosociological Perspectives (3) Analysis of socio-political processes in the development of national, regional, and world systems. The formation of social movements in this context. Usually offered every spring. *Prerequisite:* 65.530 or permission of instructor.

65.640 Theories of Social Psychology (3) Critical analysis of selected theories dealing with human nature, personality, group influences, and social interaction. Consideration of selected theoretical and methodological approaches including symbolic interaction, behaviorism, and ethnomethodology. Usually offered every spring. *Prerequisite:* 65.540 or permission of instructor.

65.650 Class and Stratum: Organization and Consciousness (3) Comparative analysis of the formation, organization,

conflict, and consciousness of classes and strata. Includes analysis of associated systems of belief. Usually offered every fall. *Prerequisite:* 65.550 or permission of instructor.

65.660 Sociology of Work and Organizations (3) Work and workers in historical and comparative perspective. Workers' organizations and consciousness. Current trends and issues. Usually offered every spring. *Prerequisite:* 65.560 or permission of instructor.

65.690 Independent Study Project in Sociology (1–6)

65.691 Internship (3) May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* graduate standing.

65.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

65.710 Seminar in Sociological Theory (3) Intensive study of selected areas or schools of sociological thought. Emphasis on the use of primary source materials. May be repeated for credit in the same term; topic must be different. *Prerequisite:* permission of instructor.

65.720 Seminar in Social Research (3) Advanced study in selected methodological approaches and techniques in social research. May be repeated for credit in the same term; topic must be different. *Prerequisite:* permission of instructor.

65.740 Seminar in Social Psychology (3) Recent theoretical and methodological advances in social psychology. Critical analysis of concepts and research. May be repeated for credit in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* permission of instructor.

65.750 Seminar in Social Stratification (3) Exploration and criticism of theoretical and methodological aspects of the field. May be repeated for credit in the same term; topic must be different. Usually offered alternate springs. *Prerequisite:* permission of instructor.

65.795 Master's Research: Independent Study in Sociology (3) Directed research is done under the supervision of a faculty member selected by the student. Preparation of a substantial research report on a topic related to the student's field of concentration. *Prerequisite:* permission of instructor.

65.797 Master's Thesis Independent Study (1–6)

65.799 Doctoral Dissertation Independent Study (1–12)

Performing Arts: Music, Theatre, Dance, and Arts Management

Undergraduate Courses

67.102 Modern Dance I /A (3) Development of the ability to communicate through movement. With permission of instructor may be repeated for credit; different repertoire is assumed. Usually offered every term.

67.103 Beginning Jazz Dance (3) This course is designed as an introduction to jazz dance techniques. In addition to focusing on correct alignment and precise body articulation in the jazz idiom, the course includes videotapes, readings, class observations, and attendance at live dance performances. Usually offered every term.

67.104 Beginning Ballet (3) Development of technical skills in classical ballet vocabulary. With permission of instructor may be repeated for credit; different repertoire is assumed. Usually offered every term. *Prerequisite:* previous experience or permission of instructor.

67.120 Music Appreciation I /A (3) A fundamental introduction to music to acquaint students with standard concert pieces from all periods and performing styles. The course requires no music theory or performing experience, but the ability to read music is helpful. Usually offered every term.

67.121 Music Appreciation II (3) An investigation of the music of less well-known composers and forms and of early music and twentieth-century music. A course aimed at expanding the knowledge of music beyond the standard concert repertoire. Usually offered every spring.

67.122 The Evolution of Jazz and Rock /A (3) Cultural sources and growth of divergent stylistic characteristics of jazz and rock through the past hundred years. Usually offered every term.

67.123 Selected Topics in Music /A (3) Study of an area such as orchestral, chamber, opera, American, folk, and twentieth-century music. Previous offerings have included: Music, Performance, and Society; Beethoven—The Hero Individual in Music. May be repeated for credit in the same term; topic must be different. Usually offered every term.

67.124 Music Theory I: Basic Harmony and Analysis (3) The triad and seventh chords with their inversions, harmonic function and progression, cadences, four-part harmonization, simple modulation using secondary dominants, and pivot chords. Usually offered every fall. *Prerequisite:* 67.126 or equivalent.

67.125 Music Theory II: Continuing Harmony (3) Classical harmonic structure including chromatically altered chords. Consideration of form by analysis and composition. Usually offered every spring. *Prerequisite:* 67.124 or equivalent.

67.126 Music Theory for Nonmajors /A (3) A study of rhythm, modes, scales, intervals, chords, and basic musical forms. Usually offered every term.

67.127 Musicianship I (3) Reading, hearing, playing, and singing of simple diatonic musical materials. Conducting of these. Usually offered every fall.

67.128 Musicianship II (3) The second semester of a comprehensive program of music reading, singing, keyboard, and conducting. Usually offered every spring. *Prerequisite:* 67.127.

67.142 University Chorale (1) Prepares and presents major works of choral literature. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* audition.

67.143 University Singers (2) Small, highly select choral ensemble which presents both sacred and secular programs. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* audition.

67.144 University Orchestra (1) Concerts, sight-reading, and study of selected compositions. Open to all students,

faculty, and staff. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* permission of instructor.

67.145 Instrumental Ensembles (1) String, mixed, and wind ensembles, and jazz workshop. Open to students, faculty, and staff. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* permission of instructor.

67.150 Introduction to Performing Arts: Theatre /A (3) A general overview of drama and theatrical arts, and an investigation of the role of theatre in society. Usually offered every fall and summer.

67.155 Oral Interpretation (3) Analysis, interpretation, and practice in expressive reading of literature to develop ability to share literature with an audience. Usually offered every term.

67.181 Stage Make-Up (1) Basics of stage make-up: make-up material, make-up lists, color charts, facial anatomy, and corrective make-up. Usually offered every spring.

67.202 Modern Dance II (3) Continuation of 67.102. With permission of instructor may be repeated for credit within the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* 67.102 or permission of instructor.

67.204 Intermediate Ballet (3) Development of technical skills and performance ability in classical ballet vocabulary. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* 67.104 or permission of instructor.

67.224 Music Theory III: Modal Counterpoint (3) Investigation of monodic and contrapuntal writing from Gregorian chant through Palestrina by analysis and composition. Usually offered alternate falls. *Prerequisite:* 67.126 or equivalent.

67.225 Music Theory IV: Counterpoint/Fugue (3) Contrapuntal writing and analysis of the invention, chorale-prelude, fugue, and other imitative forms. Usually offered alternate springs. *Prerequisite:* 67.125 and 67.224 or equivalent.

67.227 Musicianship III (3) The continuation of musicianship into the second year with addition of chromatic materials. Usually offered every fall. *Prerequisite:* 67.128

67.228 Musicianship IV (3) The continuation of musicianship training with advanced materials and singing, reading, and keyboard. Conducting of these. Usually offered every spring. *Prerequisite:* 67.227.

67.251 Basic Acting I /A (3) Beginning performance skills for actors, including elementary scene study, stage movement, and role analysis. Usually offered every term.

67.252 Basic Acting II (3) A continuation of study in beginning performance skills for actors; includes scene study, textual analysis, and character exploration. Usually offered every term. *Prerequisite:* 67.251.

67.260 Principles of Production I /A (3) Basic production philosophy and organization, and experience in working with scenic properties construction and materials, basic electricity, and live performance support. Usually offered every fall.

67.265 Theatre Practicum (1) Provides the student with the practical hands-on experience necessary to integrate the theories of theatre production techniques with the realities of live theatre. With the approval of the theatre faculty may include performance, assisting of creative staff, technical production, or management experience. May be repeated for credit but not within the same term; topic may be the same. Usually offered every term.

67.302 Modern Dance III (3) Continuation of 67.202. Meets with 67.602. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* 67.202 or permission of instructor.

67.305 History and Philosophy of Dance I (3) The evolution of Western theatrical dance, with emphasis on the sixteenth through the nineteenth centuries. Usually offered every spring.

67.306 History and Philosophy of Dance II (3) A chronological survey of dance in the twentieth century. Writings and videos of contemporary dance authorities and artists are used as source materials. Usually offered every fall. *Prerequisite:* 67.305.

67.322 History of Music I (3) Music in Western civilization from ancient times to the seventeenth century, including a brief survey of primitive and oriental music. Illustrated with slides and recordings. Usually offered alternate falls. *Prerequisite:* one year (preferably two) of music theory or permission of instructor.

67.323 History of Music II (3) Music in Western civilization from the eighteenth century to the present. Illustrated with slides and recordings. Usually offered alternate springs. *Prerequisite:* 67.322 or permission of instructor.

67.324 Music Theory V: Analysis/Advanced Harmonic Forms (3) Examination of the structural principles of tonal music from the baroque through the romantic periods. Usually offered alternate falls. *Prerequisite:* 67.125.

67.325 Music Theory VI: The Twentieth Century (3) Diverse styles and compositional techniques of the twentieth century are examined through analysis. Usually offered alternate springs. *Prerequisite:* 67.324.

67.326 Orchestration (3) Scoring for various chamber ensembles and full orchestra. Analysis of the orchestration of composers from the classical era to the present. Usually offered every fall. *Prerequisite:* 67.125.

67.350 Scene Study (3) An intermediate-level acting class focusing on character analysis within the scene and within the play. Class discussion, instructor critique, improvisation, and vocal and physical warm-up are emphasized. Usually offered every term. *Prerequisite:* 67.252.

67.351 Movement for Actors (3) Continuation of 67.350 with a focus on movement improvisation and the exploration of physical actions as a means of creating character. Usually offered every spring. *Prerequisite:* 67.350 or permission of instructor.

67.352 Beginning Directing I (3) A studio course providing training in the theory and practice of blocking and play anal-

ysis for the beginning director. Arena, proscenium, and environmental staging are considered. Usually offered every fall. *Prerequisite:* 67.150, 67.251, 67.260.

67.355 Speech and Voice for the Theatre (3) For theatre majors concerned with developing effective techniques of voice and diction.

67.361 Costume Design (3) Study of the history and design of theatrical costumes from the late sixteenth century to the present. *Prerequisite:* 67.265 Theatre Practicum: Costume Shop.

67.362 Lighting Design (3) Lighting instruments, control boards, and the use of lighting as an integral part of design for the performing arts. Usually offered every spring. *Prerequisite:* permission of instructor.

67.363 Scene Design (3) Fundamentals of design for the performing arts; preparation of sketches and drawings based on the principal styles and periods. *Prerequisite:* 67.260.

67.365 World Theatre I (3) The historical pattern of drama as an art form and the social function of the theatre from its earliest appearance through the Renaissance. Usually offered every fall.

67.366 World Theatre II /A (3) The historical pattern of drama as an art form and the social function of the theatre from the Baroque to the present. Usually offered every spring. May be taken independently of 67.365.

67.367 Modern American Theatre and Drama /A (3) American drama from O'Neill to the present.

67.390 Independent Reading Course in Performing Arts (1–6)

67.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication.

67.398, 67.399 Departmental Honors, Junior Year (1–6), (1–6) May be repeated for credit but not in the same term; topic must be different. Usually offered every term.

67.400 Methods of Teaching Dance (3) Understanding the value of dance education, and developing approaches to teaching dance at various age levels. Meets with 67.600. Usually offered every spring.

67.404 Advanced Ballet (3) Advanced ballet exercises and movement sequences to increase technical skill and personal expression. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* 67.204 or permission of instructor.

67.410 Workshop in Dance Production (2–3) Develops techniques and provides experience in various phases of dance production. Repertory and improvisation. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* permission of instructor.

67.411 Composition of Dance I (3) Introduction to the vocabulary and techniques of choreography. Students create their own choreographies. May be repeated for credit but not within the same term; topic must be different. Usually offered every fall. *Prerequisite:* permission of instructor.

67.412 Composition of Dance II (3) Continuation of 67.411. May be repeated for credit but not within the same term; topic must be different. Usually offered every spring. *Prerequisite:* 67.411 or permission of instructor.

67.450 Rotating Topics in Theatre (3) Designed for advanced undergraduate students who wish to continue theatre studies. Emphasis on approaches to performance material and preparation techniques for improvisation, advanced acting styles, children's theatre, creative dramatics, Shakespeare, stage management, and other selected topics. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of instructor.

67.490 Independent Study Project in Performing Arts (1–6)

67.491 Performing Arts: Internship (1–6) Usually offered every term.

67.498, 67.499 Departmental Honors, Senior Year (1–6), (1–6) May be repeated for credit but not in the same term; topic must be different. Usually offered every term.

Graduate and Advanced Undergraduate Courses

67.506 The Moving Body (3) The practical application of anatomy and kinesiology to performance work in dance, music, and theatre. Warm-up exercises, injury prevention, sports, and everyday activities are also covered. Usually offered every term. *Prerequisite:* permission of instructor.

67.507 Principles of Movement (3) Principles of Movement is a system of analysis for describing and understanding the qualitative aspects of movement. Students learn to expand their movement vocabulary, both spatially and dynamically, and to develop their verbal skills in observing and describing dance. Usually offered every spring.

67.520 Studies in Music Literature (3) Survey of an area such as chamber, orchestral, keyboard, or choral music. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* permission of instructor.

67.524 Studies in Music Theory (3) In-depth studies in areas of theoretical concern, such as fugue, advanced counterpoint, and serial techniques. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* 67.325 or equivalent.

67.528 Diction for Singers (2) Pronunciation practices in languages relevant to vocal literature: French, Italian, and German.

67.529 Medieval Music (3) Advanced study of European music from the early Christian era to the beginning of the fifteenth century. Emphasis on stylistic and notational problems, primary sources, and bibliography. Illustrated with slides and recordings. Written paper and taped listening assignments. Usually offered alternate falls. *Prerequisite:* 67.322 or equivalent.

67.530 Renaissance Music (3) Comprehensive survey of European music of the fifteenth and sixteenth centuries. Emphasis on stylistic innovations, primary sources, and bibliography. Usually offered alternate springs. *Prerequisite:* 67.322 or equivalent.

67.531 Music of the Baroque Era (3) Advanced study of European music of the seventeenth and early eighteenth centuries. Comprehensive coverage of styles and forms, illustrated with slides and recordings. Usually offered alternate falls. *Prerequisite:* 67.322 or equivalent.

67.532 Music of the Classical Era (3) Growth of new idioms and forms from the early eighteenth to the early nineteenth century. Illustrated with slides and recordings. Usually offered alternate springs. *Prerequisite:* 67.323 or equivalent.

67.533 Music of the Romantic Period (3) Historical and cultural background; intensive study of the composers and works of the period. Emphasis on individual style, nationalism, and program music. *Prerequisite:* 67.323 or equivalent.

67.534 Music of the Twentieth Century (3) Chronological survey of musical styles and ideas from 1900 to the present, with the emphasis on a few selected composers. Illustrated with slides and recordings. Usually offered alternate springs. *Prerequisite:* 67.323 or equivalent.

67.535 Studies in Music History (3) Concentration in an area such as opera, non-Western music, or performance practices. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* 67.323 or concurrent registration.

67.536 Research Methodology in Music (3) Methods and tools of research. Class project, oral report, and paper. Transcription of vocal notations and instrumental tablatures. Survey of scholarly editions, periodicals, and reference works in the major European languages. *Prerequisite:* 67.322, 67.323, or equivalent.

67.537 Music: Analytical Studies (3) A study of analytical techniques applied to a representative sample of music from the medieval through contemporary periods. Usually offered every fall. *Prerequisite:* 67.325.

67.543 Pedagogy I (2) Seminar to explore concepts of vocal and instrumental performance and their application to teaching in a private studio. Usually offered every fall. *Prerequisite:* permission of instructor.

67.544 Pedagogy II (2) Survey of literature and teaching of instrumental and vocal techniques. Usually offered every spring.

67.545 Chamber Ensembles (1) Performance in particular areas of music literature by small, select groups, including Collegium Musicum. Vocal and instrumental sections. Emphasis on baroque, renaissance, and medieval music, using departmental collection of lutes, viols, recorders, cromornes, cornetti, sackbuts, harpsichords, etc. May be taken four times for credit by graduate students. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* audition.

67.546 Internship in Music (3) Practical professional experience for selected students who work with cooperating agency directly in their professional field under faculty supervision. May be repeated for credit but not in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of department chair.

67.547 Pedagogy III (3) An in-depth investigation of pedagogical materials relating to the piano and voice, and critical analysis of performance and performing materials. Usually offered alternate falls. *Prerequisite:* 67.543 and 67.544.

67.552 Advanced Directing (3) Seminar laboratory course in problems of directing plays for theatre. Usually offered every spring. *Prerequisite:* permission of instructor.

67.554 Creativity and the Creative Process /A (3) Exploration of the concepts of creativity and the creative process, identification of individual creative impulses and how to channel them. Usually offered every spring.

67.555 TV Performance I (3) Trains students in the crafts necessary to act in the special framework of television; includes work in lighting, make-up, movement, and single and multiple camera acting techniques. Usually offered every fall. *Prerequisite:* permission of instructor.

67.557 Creative Writers Performance Laboratory (3) An exploratory course for writers, actors, directors for study and development of original scripted works and the process inherent in the creation of a dramatic piece. Attention given to special acting, directing, writing techniques needed to realize a polished performance of students original works. *Prerequisite:* some experience in writing, acting, or directing, or permission of instructor.

67.566 Seminar in Theatre History (3) Intensive study of topics in the broad range of theatre history through discussion, oral presentation, and written assignments. May be repeated for credit but not in the same term; topic must be different. *Prerequisite:* permission of instructor.

67.569 Seminar in Theatre (3) Problems in theatrical presentation and theatre history. Topics are announced the semester the course is offered. May be repeated for credit but not in the same term; topic must be different.

67.570 Survey of Arts Management (3) Study of various facets of management in the arts: contracts, logistics, organization, etc. Usually offered every fall. *Prerequisite:* permission of instructor.

67.571 Promotion and Public Relations for Performing Arts (3) Examination of techniques of audience development for arts institutions. Basic promotion and public relations skills. Usually offered every spring. *Prerequisite:* permission of instructor.

67.572 Case Studies in Performing Arts Management (3) An exploration of major areas of arts management: grants and fund raising; box office, income, and general administration; and arts in education. May be repeated for credit in the same term; topic must be different. Usually offered every spring. *Prerequisite:* 67.570 or permission of instructor.

67.573 Fund-Raising Management for the Arts (3) Examines the factors most conducive to financial health of institutions and ways of obtaining and maintaining funding. Usually offered every fall. *Prerequisite:* 67.570 or permission of instructor.

67.585 Creative Theories and Criticism in Performing Arts (3) Aesthetic and critical constructs which apply to the interrelationship among the performing arts and criticism of them. Usually offered every spring. *Prerequisite:* permission of instructor for those other than majors.

67.590 Independent Reading Course in Performing Arts (1–6)

Graduate Courses

67.600 Methods of Teaching Dance (3) Understanding the value of dance education, and developing approaches to teaching dance at various age levels. Usually offered every spring.

67.602 Modern Dance III (3) Continuation of 67.202. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* 67.202 or permission of instructor.

67.604 Advanced Ballet (3) Advanced ballet exercises and movement sequences to increase technical skill and personal expression. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* permission of instructor.

67.605 History and Philosophy of Dance I (3) The evolution of Western theatrical dance, with emphasis on the sixteenth through the nineteenth centuries. Usually offered every spring.

67.606 History and Philosophy of Dance II (3) A chronological survey of dance in the twentieth century; writings and videos of contemporary dance authorities and artists are used as source materials. Usually offered every fall. *Prerequisite:* 67.605.

67.610 Workshop in Dance Production (2–3) Develops techniques and provides experience in various phases of dance production. Repertory and improvisation. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* permission of instructor.

67.611 Composition of Dance I (3) Introduction to the vocabulary and techniques of choreography. Students create their own choreographies. May be repeated for credit but not within the same term; topic must be different. Usually offered every fall. *Prerequisite:* permission of instructor.

67.612 Composition of Dance II (3) Continuation of 67.611. May be repeated for credit but not within the same term; topic must be different. Usually offered every spring. *Prerequisite:* permission of instructor.

67.650 Rotating Topics in Theatre (3) Designed for advanced graduate students who wish to continue theatre studies. Emphasis on approaches to performance material and preparation techniques in improvisation, advanced acting styles, children's theatre, Shakespeare, stage management, and other selected topics. May be repeated for credit in the same term; topic must be different. Usually offered every term. *Prerequisite:* permission of instructor.

67.665 World Theatre I (3) The historical pattern of drama as an art form and the social function of the theatre from its earliest appearance through the Renaissance. Usually offered every fall.

67.666 World Theatre II (3) The historical pattern of drama as an art form and the social function of the theatre from the Baroque to the present. Usually offered every spring. *Prerequisite:* 67.665.

67.690 Independent Study Project in Performing Arts (1–6)

67.691 Performing Arts: Internship (1–6) Usually offered every term.

67.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

67.749 Research Performance: Lecture Recital (3–6) Research topics for M.A. candidates in music performance who choose to present a lecture-recital instead of a thesis. Work includes intensive instrumental or vocal research in lecture topic area. May not be taken before the M.A. recital requirement has been completed. Must be under the supervision of a full-time faculty adviser. Usually offered every term. *Prerequisite:* permission of department chair.

67.797 Master's Thesis Seminar (1–6) Usually offered every term.

67.798 Nonthesis Option Seminar (3–6) Usually offered every term.

Applied Music

Undergraduate Courses

68.100 Class Instrumental Study (1) Beginning study in an announced area (piano, guitar, recorder, various orchestral brass, woodwind, string, and percussion instruments). May be repeated for credit on another instrument or—in the case of piano or guitar—for a second semester at a more advanced level. Prepares the beginning student for private study. Usually offered every term.

68.101 Class Vocal Study (1) Basic principles of singing. May be repeated for a second semester at a more advanced level. Prepares the beginning student for private study, for more effective choral singing, etc. Usually offered every term.

68.121 Private Instrumental or Vocal Study (1) May be repeated for credit with permission of instructor; different repertoire is assumed. Usually offered every term. *Prerequisites:* 68.100 for instruments, 68.101 for voice, or permission of instructor.

68.122 Private Instrumental or Vocal Study (2) With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term.

68.334 Private Instrumental or Vocal Study (4) Junior performance honors. Full recital required. Usually offered every term. *Prerequisite:* audition and permission of department chair.

68.434 Private Instrumental or Vocal Study (4) Full recital required. Senior performance honors. Usually offered every term. *Prerequisite:* audition and permission of department chair.

68.444 Music Composition (3) Class or individually supervised practice in writing short compositions in specified small forms. Assignments adapted to needs and talents of students. Usually offered every term. May be repeated for credit. *Prerequisite:* 67.225 or permission of instructor.

Graduate and Advanced Undergraduate Courses

68.531 Private Instrumental or Vocal Study (1) Directed at the nonperformance major. Admission predicated on

completion of second year of undergraduate applied music major requirements and audition. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term.

68.532 Private Instrumental or Vocal Study (2) Directed at the nonperformance major. Admission predicated on completion of second year of undergraduate applied music major requirements and audition. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term.

68.534 Studio Accompanying (2) Provides piano students with practical studio experience with singers and instrumentalists; includes two supervised hours (lessons) and four preparation hours per week. With permission of instructor may be repeated for credit, but not in the same term; different repertoire is assumed. Usually offered every term. *Prerequisite:* audition.

Graduate Courses

68.791 Private Instrumental or Vocal Study (1) May be repeated up to six hours by a master's degree candidate in performance. Others limited to four hours. Usually offered every term. *Prerequisite:* written permission of department.

68.792 Private Instrumental or Vocal Study (2) May be repeated up to six hours by a master's degree candidate in performance. Others limited to four hours. Usually offered every term. *Prerequisite:* written permission of the department.

68.794 Advanced Music Composition (3) Guidance in writing large forms and in experimental idioms. Assignments adapted to individual needs, interests, and talents. May be repeated for credit but not in the same term. Usually offered every term. *Prerequisite:* two semesters of 68.444 or permission of instructor.

Community Studies

Undergraduate Courses

71.101 Communications I (3) Diagnoses students' problems in written expression; improves skills in critical reading and expository writing; introduces language psychology. Readings include patterned essays, stories, and poems. Students write a number of essays. Fulfills university English requirement 23.100. Usually offered every term.

71.102 Communications II (3) Continuation of 71.101. Continues improvement of reading and writing skills along with application of language psychology to inner-city experiences. Readings include a novel and shorter works. Writing assignments include a research paper, a number of essays, and some creative writing. Completes the university's English requirement. Usually offered every term. *Prerequisite:* 71.101.

71.104 Critical Reading and Thinking (3) What really happens between an author and the reader. Students closely analyze a number of essays and several books. Usually offered every term.

71.108 Introduction to the Social Sciences (3) The social sciences and their application to specific problems. Issue-oriented, interdisciplinary course involving psychology, economics, and sociology. Usually offered every term.

71.390 Independent Reading Course in Community Studies (1–6)

71.490 Independent Study Project in Community Studies (1–6)

Justice

Undergraduate Courses

73.103 Introduction to Problems of Justice /S (3) Political, legal, economic, and social problems of justice emphasizing crime, deviance, and other conduct resulting in such socially disapproved labels as mentally ill, delinquent, and criminal. Moral and theoretical issues involved and mechanisms for remedying injustice and controlling socially disapproved behavior. Usually offered every term.

73.104 Introduction to Systems of Justice /S (3) An overview of the formal mechanisms of social control as manifested by the components of the criminal justice system (legislatures, planning agencies, law enforcement, courts, and corrections), civil justice systems, and such other mechanisms as civil commitment. Alternatives to formal processing including diversion, pretrial screening and dispute-settlement programs. Usually offered every term.

73.205 History and Philosophy of Criminology /A, S (3) Development of theories of criminology and criminal justice over the course of history with attention to the period from 1700 to the present. Review and evaluation of contemporary knowledge and theories of crime. Usually offered every term.

73.206 Social Justice and Deviant Behavior (3) Consideration of conformity and deviance in the light of broader issues of social justice (poverty, racism, sexism, alienation, etc.), of interactions among persons and groups that engage in and sanction deviance, of the role of ideology in the definition of deviance, and of the social policy consequences of deviance definition. Usually offered every fall.

73.210 Policing in America: An Introductory Survey /S (3) A survey of the history, development, environment, organization, and sociology of American law enforcement, with emphasis on state and local police agencies. Police as an agency of social control; police as a service agency; police as a part of government and of the justice system. Usually offered every fall.

73.211 Contemporary Issues in American Law Enforcement (3) Analysis of major contemporary issues in law enforcement. Policy formulation; operational procedures; patrol; performance measurement; women and minorities in policing; labor-management relations; corruption; political accountability; use of force; citizen complaints. Usually offered every spring.

73.230 Contemporary Corrections in the United States /S (3) Survey of current correctional thought and practices in the United States and their evolution. Overview of correctional treatment in different kinds of institutions and in the community. Usually offered every fall.

73.253 Juvenile Delinquency and Youth Crime (3) Development of the individual through childhood and adolescence as it relates to delinquency and crime; special characteristics of juvenile criminality; current principles, policies, and practices for its prevention and control. Factors producing delinquency. Juvenile detention, juvenile court, training schools, and treatment of the offender. Usually offered every spring.

73.300 Drugs and Society /S (3) Fundamental issues regarding drug use, human freedom, addiction, and treatment; the history of the opiates, especially heroin, in America and Britain; the role of law, enforcement, and treatment in dealing with opiate users in both countries. Usually offered every fall.

73.301 Drugs, Consciousness and Human Fulfillment (3) Positive approaches to achieving alternative states of consciouness with and without drugs; the nonaddictive use of addicting drugs; a balanced assessment of the latest findings on the dangers and benefits of the most widely used nonopiate recreational drugs, such as marijuana, tobacco, caffeine, alcohol, quaaludes, and cocaine; choices for individuals and society regarding the use and control of the substances. Usually offered every spring.

73.302 Alcoholism and Society (3) Analysis of alcoholics in terms of social forces that produce them. Cultural values, social pressures, response to the alcoholic by spouse, family, and legal systems, and the effects of such responses are examined using cross-cultural data. Usually offered every spring.

73.307 Justice and Law /A, S (3) The historical development, theory, principles, and content of criminal and civil law and their interrelationships; exploration of due process, rule of law, and the role of the Constitution in protecting rights and limiting the actions of both civil and criminal justice agencies. Usually offered every term.

73.308 Justice and Morality /A, S (3) Moral issues involved in administering justice in society, emphasizing the nature of human rights and the ideal of justice. Moral consequences of official control actions of lawmakers, justice system careerists, and others involved in the definition of crime and deprivation of liberty, stressing "morals offenses." Usually offered every term. *Prerequisite:* 60.101.

73.311 Introduction to Forensic Science (3) Scientific analysis and identification of evidence and documents, special police techniques, interpretation of medical reports, and preparation of reports. Usually offered every fall.

73.313 Organized Crime (3) Organized crime in the United States; its effect on society and the need for integrated response by people, government, and business. Organized crime as social subculture. Socioeconomic and political aspects of organized crime emphasizing internal controls and external relations with various political and economic sectors. Usually offered every spring.

73.315 White-Collar and Commercial Crime (3) Economic and fiscal implications and enforcement problems. Fraudulent association, bankruptcy fraud, monopoly and coercive competitive practices, and illegal use of securities and credit cards. Problems of theoretical criminology presented by white-collar crime. Usually offered every fall.

73.320 Criminal Procedure (3) Enforcement, investigation, pretrial procedure, trial procedure and sentencing, post-trial motions, appeals, reviews, and remedies. Police practices such as arrest, search and seizure, bail, preventive detention, and interrogation. Right to counsel, incompetency, and the insanity defense. Usually offered every fall. *Prerequisite:* 73.307.

73.321 Evidence (3) Rules of evidence applicable in criminal cases, including presumptions and inference; direct and circumstantial evidence; real evidence; testimonial knowledge and opinions evidence; character evidence; the hearsay rule and its exceptions; documentary evidence; confessions, admissions, and privilege against self-incrimination; illegally obtained evidence, witnesses; and former testimony. Usually offered every spring. *Prerequisite:* 73.307 and 73.320.

73.330 Institutional Corrections /S (3) Analysis of correctional processes in juvenile and adult institutions. Usually offered every fall.

73.331 Corrections in the Community (3) Probation and parole-supervision concepts, prerelease planning, caseload classification techniques, use of probation case-aides, and community and neighborhood treatment centers. Auxiliary services such as employment, mental health, and vocational counseling. Usually offered every spring.

73.340 Judicial Administration: Criminal (3) Management of criminal process to assure all constitutional rights. Administrative relationships of courts with agencies and individuals involved in criminal justice: defendants; police and criminal investigation agencies; prosecutors and defense counsel; bail agencies; probation officers; and correctional agencies. Grand jury and petit jury procedures. Protection of the integrity of judicial process. Usually offered every fall.

73.341 Judicial Administration: Civil (3) Problems of civil litigation: personal injury, probate, small claims, and landlord and tenant relations. Protracted litigation. Devices for narrowing issues and expediting litigation. Alternatives for resolving disputes. Judicial management problems: record keeping, calendar management, and jury service. Administrative relationships of courts to other agencies and to the public. Usually offered every spring.

73.351 Individuals, Institutions, and Justice in America (3) Examination of the suitability of the U.S. system for dealing with institutions by examining the present status of institutions and individuals. Criteria for assessing abuses and improvements suggested by public interest, legal, political, and research action groups.

73.352 Psychiatry and the Law /S (3) Basic psychiatric principles including contemporary views of causes, manifestations, patterns, and treatments of psychiatric and behavioral disorders; trends in the use of psychiatric resources to deal with deviant behavior within and without the criminal justice system. Incompetence as bar to trial, insanity as defense, civil commitment, drug addiction, alcoholism, psychiatry in processing and treating juvenile offenders, and rehabilitative efforts of the corrections system. Usually offered every fall.

73.380 Introduction to Justice Research (3) Social research methods as applied to justice research. The function and role of justice research and the nature and form of research designs, methods, and tools. Usually offered every term. *Prerequisite:* 42.202 and junior standing.

73.382 Determination of Fact (3) An introduction to fact finding. Considers how necessary factual bases for adminis-

trative, managerial, legislative, and adjudicative decisions are established; discusses ethical strategies for using physical evidence, people, records, and files in proof; compares investigation, auditing, and scientific method; and uses examples from criminal, civil, juvenile, and military justice system design and operation problems. Usually offered every spring.

73.390 Independent Reading Course in Justice (1–6)

73.392 Cooperative Education Field Experience (3–9) See description under Cooperative Education in this publication.

73.411 Problems in Forensic Science (3) Examination of specific problems involving case studies of investigative techniques, practices, and procedures, with emphasis on scientific application thereto. Usually offered every spring. *Prerequisite:* 73.311.

73.420 Legal Reasoning (3) Students absorb scholars' and judges' descriptions of analysis and decision in law; practice legal reasoning themselves through analysis of appellate decisions, statutes, and the U.S. Constitution; study procedural and organizational components of the American legal system; and choose an area in which to concentrate and synthesize their learning by developing reasoned arguments. Usually offered every term.

73.431 The Prison Community (3) Social organization in correctional institutions. Inquiry into the nature, organization, and aims of the penal system and its effect on groups it deals with. Interaction of groups within institutions. Usually offered every spring.

73.450 Prevention of Crime and Delinquency (3) Concept of prevention, programs of prediction, sources of data on high delinquency and criminality areas, and community action projects as preventive services. Usually offered every spring.

73.454 Violence in America (3) Emphasis on various ideologies and events that cause or reduce violence, such as social movements, depressions, war, and political repression.

73.458 The Juvenile and the Law (3) Special legal status of the juvenile. Protective services, incompetence to enter contracts, compulsory education, child labor laws, and *in loco parentis* actions by state and private institutions. Juvenile and family court movement, emphasizing noncriminal aspects of administering juvenile justice: guardianship, dependency, neglect, child support, paternity, and adoption. Usually offered every fall.

73.463 The Free Press and the Administration of Justice (3) The constitutional guarantee of freedom of the press as it pertains to problems in administration of justice. Free press and law enforcement, fair trial, and correctional processes. Problems of administrative secrecy, national security, and right to privacy. Usually offered every spring.

73.490 Independent Study Project in Justice (1–6)

73.491 Internship in a Justice Setting (1–6) Provides students with actual experience in the administration of justice through assignment to enforcement, judicial, or correctional agencies under joint supervision of agency officials and university instructor. Usually offered every term.

73.492 Washington Justice Seminar I: A National and Intergovernmental Perspective (4) Classroom section of a double seminar. Each session covers a specific area in terms of theory and operational principles and explores the roles of all three branches of government in creating and operating justice systems in federations. Usually offered every term.

73.493 Washington Justice Seminar II: A National and Intergovernmental Perspective (4) Laboratory section of a double seminar. Field visits with discussions led by agency personnel regarding the intergovernmental roles of their agencies and their place in justice systems. Theory and operational principles covered in 73.492. Usually offered every term.

Graduate and Advanced Undergraduate Courses

73.500 Moral Issues in Criminal Justice (3) Discussion and analysis of moral issues and their relationship to the criminal justice system. Usually offered alternate springs.

73.501 The Concept of Justice (3) Major philosophical contributions to the definition of justice. The relationship of the ideal of justice to concrete situations in which issues of justice (civil, criminal, or political) arise. Usually offered alternate falls.

73.502 The Concept of Law (3) Major philosophical approaches to problems of meaning, function, and necessity of law in society. The concept of law is examined in its relationship to values, custom, power, social change, and social theory. Usually offered alternate springs.

73.503 Criminal Behavior: A Psychosocial Analysis (3) Examines various clinical and theoretical explanations for different types of criminal behavior including an analysis of the violent offender, the psychotic offender, the psychopathic offender, and the white-collar offender. Readings and other case-study material of actual criminal offenders are examined in order to acquaint students with developing an understanding of the causes and "treatment." Offered irregularly.

73.504 Comparative Criminology and Criminal Justice (3) A comparative study of criminology and criminal justice systems as developed in the United States and elsewhere. Usually offered alternate springs.

73.517 Victimology (3) Victims as an integral part of crime. Theories and research results on the victim role, criminal-victim relationships, concepts of responsibility, and society's reaction to victimization. Sexual assault, child abuse, and victimization of the elderly. Crisis-intervention centers, court related victim/witness services, restitution, and compensation.

73.520 Theories of Planned Change: Society, the Environment, and Justice (3) Historical attempts of people to improve living conditions. Basic strategies of intervention and possible alternatives compared to past attempts. Legal and economic inequality, personal helplessness, and relationships among concepts of change in economics, land use, law, sociology, and justice. Usually offered every fall.

73.521 Law and the Mental Health System (3) This course examines the interprofessional relationship between law and the mental health systems, including areas of conflict and close working relationships. Areas covered include standards for involuntary hospitalization, the role of the insanity defense, psychiatric liability, the rights of the mentally ill in-

cluding the right to treatment and right to require treatment. Offered irregularly.

73.522 Crime and Public Policy (3) An examination of national and state policy issues that affect the definition of crime and the responses by executive-and judicial-branch agencies toward crime. Offered irregularly.

73.540 Police and the Political System (3) Police function as an instrument of public policy, particularly social and economic. Relationship of police to public and private agencies, constitutional and pragmatic limits on law enforcement, problems of federalism, police discretion and selective enforcement, minimum standards, community control, political feasibility, and due process as a necessity for ordered liberty. Usually offered every fall.

73.541 The Police State (3) The theory and practice of the police state in comparative perspective. Authoritarian and antidemocratic aspects of police and other criminal justice agencies. Other agencies of social control in both democratic and nondemocratic settings. Democratic controls and human rights. Usually offered every spring.

73.550 Drugs, Crime, and Public Policy (3) Review of the history of drug abuse in America; the relationship between drug abuse and crime, including marijuana, heroin, and alcohol; national strategies to deal with drug abuse; improvement of policies in the future. Usually offered every fall.

73.551 Comparative Justice Studies (3–6) On-site review of theories and practices of crime and criminal justice systems of other countries, including crime, justice, and heroin in England; juvenile justice in England and America; comparative corrections; and administration of justice in England, Sweden, Denmark, and the Netherlands. Usually offered every summer.

73.552 Drug Abuse and the Law (3) Legal classifications of drugs in major federal and state statutes; the evolution of case law in opinions of U.S. Supreme Court and in state and local courts; controls on medical doctors regarding legitimate use of drugs in treating the addicted and the organically ill; the current law regarding possession, transportation, sale, extrapment, and search and seizure; and comparison with law of the United Kingdom. Usually offered every spring.

73.553 Drug Abuse Treatment (3) Various methods now in use in America and other countries for assisting persons having difficulties associated with the abuse of drugs, including narcotics, alcohol, marijuana, quaaludes, tranquilizers, and tobacco, among others. Clinical techniques and organizational methods. *Prerequisite:* 73.550.

73.590 Independent Reading Course in Justice (1–6)

Graduate Courses

73.600 Proseminar: Issues in Justice (3) The proseminar provides incoming graduate students with an overview of the interests and specialties of the School of Justice faculty. Faculty members lecture on such issues as American prisons, drug usage and policy, law enforcement and social control, law and psychiatry, victimology, American courts: their structure and function, philosophies of justice, the institutions of justice, and the study of law as a behavioral science. Lecture classes alternate with classes in which the instructor leads a discussion of the issues raised by the preceding speaker. Usually offered every fall.

73.604 Theoretical Issues in Justice (3) Consideration of the nature and sources of injustice, crime, and deviance; the variety of social control mechanisms including the legal system; the role of ideology; and the problems of legitimacy, authority, and responsibility of justice-system design and operation. Usually offered alternate springs.

73.606 Nature and Function of the American Legal System (3) Law as a discipline among disciplines. The nature and sources of legal systems, the operation of the legal system among governmental and social systems, and legal systems from a sociological as well as from a traditional legal viewpoint. Usually offered alternate falls.

73.608 The Constitution and Criminal Procedure (3) Constitutional standards and operation of the criminal justice system. Police practices, bail, decision to prosecute, scope of prosecution, grand jury proceedings, preliminary hearings, right to counsel, right to speedy trial, plea bargaining, discovery and disclosure, jury trial, trial by newspaper, double jeopardy, and post-trial proceedings. Usually offered every spring.

73.609 The Political Basis of the Criminal Justice System (3) Criminal justice aspects of political systems. Actors in the system are considered in their political roles. Emphasis on policy making, political elites and community power, and interest articulation within and outside formal governmental structure. Criminal and civil justice as sub-systems of the political system. Usually offered every spring.

73.612 White-Collar Crime in Government, Business, and Labor (3) Criminal frauds and deceits and related behavior in government, business, labor, and other settings. Includes consumer fraud, stock market and other corporate crimes (including bribery), conflict of interest, and Watergate phenomena.

73.631 Applied Justice Program Evaluation Techniques (3) Practical guidance in the techniques of designing, implementing, and presenting results of justice program evaluation plans. Basic social research methods are applied to practical, action-oriented justice system programs. Requires knowledge of graduate-level social research methods. Offered irregularly.

73.640 Theoretical Bases of Law Enforcement (3) Theoretical models that explain law-enforcement operations and behavior. Comparative analysis and historical evolution of urban police, the effects of cultural and social factors and social movements. Offered irregularly.

73.641 Management and Policy Issues in Law Enforcement (3) A systems approach to the issues of law-enforcement organization and management. Management principles, organizational structures, and analysis of policy issues stressing dynamics of policy development and implementation. Law-enforcement agencies as open and interacting systems in enacting legal policies. Usually offered every fall.

73.642 Seminar on Contemporary Literature in Law Enforcement (3) Selected readings of recent books, articles from professional journals, government documents, and research reports. Offered irregularly.

73.660 Critical Issues in Judicial Administration (3) Policy analysis of problems of organization, structure, and manage-

ment development in the judicial branch. The role of judicial branches in resolving conflict; the growth and decay of institutions and processes in the judiciary; change-process analysis; and analysis of germane case law, statutes, and other materials. Usually offered every spring.

73.661 Complex Organizational Theory in Court Systems and Legal Organizations (3) Major theoretical perspectives on complex organizations; application of conceptual frameworks to organization and management problems of court systems, law offices, public and private, and other law-related institutions; development of managerial perceptions and philosophies. Usually offered every fall.

73.662 Court Management Practices (3) Applies specific management concepts and practices to court systems and other legal organizations. Review of literature relating to functions of court systems including finance, personnel, case-flow, jury, space, and information systems. Examination of specific organizational environments, development of management philosophy for the public sector, and role analysis. Usually offered every spring.

73.680 Introduction to Justice Research I (3) The logic of scientific inquiry and the nature and process of social research as applied to justice. Theory, concepts, practices, and the demonstration of their reliability and validity. Attention is also given to methods of sampling design and techniques of data collection. Usually offered every fall.

73.681 Introduction to Justice Research II (3) Methods of data analysis applicable to research in the justice field. Building on the concepts presented in 73.680, the course examines the link between research design and empirical analysis, the role of probability in hypothesis testing, and the concept and techniques of descriptive and inferential statistics. Usually offered every spring. *Prerequisite:* 73.680.

73.683 Institutional Corrections (3) Correctional institutions and their functions. Topics include: prisons as total institutions; characteristics of various kinds of correctional facilities; problems of rehabilitation; analysis of prison communities; patterns of adjustment to prison life among inmates and staff; and the effects of institutionalization of offenders. Usually offered every fall.

73.684 Community Corrections (3) The utility of treating selected offenders outside the institutional setting. Theory and practice of probation, parole, half-way houses, and experimental programs. Emphasis on understanding the legal, philosophical, and decision-making processes affecting the implementation of community corrections. Usually offered every fall.

73.685 Juvenile Corrections (3) The basic premises of the system of corrections that attempts to control and treat the juvenile offender. Sources of delinquent behavior as they relate to system responses to the phenomenon. Recent trends in the juvenile system are contrasted with traditional procedures. Usually offered every spring.

73.687 Management Issues in Corrections (3) Management theories and their application to specific correctional organizational settings. Management by objectives, the management grid, motivation and job-satisfaction problems, goal setting, organizational effectiveness, organizational climate, and interorganizational relationships in maintaining resources. Usually offered every spring.

73.690 Independent Study Project in Justice (1–6)

73.691 Internship in a Justice Setting (1–6) Provides students with experience in administering justice in operational or research settings through assignment to legislative, regulatory, planning, police, judicial, or correctional agencies under joint agency/school supervision that includes faculty evaluation of ongoing written reports. Usually offered every term.

73.692 Cooperative Education Field Experience (3–6) See description under Cooperative Education in this publication.

English Language Institute

Undergraduate Courses

74.090 English I: Basic Intensive English (0) An intensive course in basic English as a second language: intended for students with little or no command of English. Emphasis is on listening and speaking skills and on building a basic foundation in grammar. Enrollment in 74.090 constitutes full-time study. Usually offered every term. *Prerequisite:* admission by placement test only.

74.120 Grammatical Analysis II (1) A low intermediate course in English grammar intended for students with a basic command of English. Emphasis is on variations of basic sentence patterns. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.090.

74.122 Reading Skills II (1) A low intermediate course in basic reading skills in English as a second language; intended for students with a basic command of English. Emphasis is on understanding written English and on vocabulary development. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.090.

74.124 Writing Skills II (1) A low intermediate course in English as a second language. Emphasis is on developing basic mechanics and conventions of written English through controlled writing exercises and activities. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.090.

74.126 Listening and Speaking Skills II (1) A low intermediate course in English as a second language. Emphasis is on mastery of pronunciation and increased comprehension in listening skills. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.090.

74.130 Grammatical Analysis III (1) An intermediate course in English as a second language. Emphasis is on structures of modification and verbal constructions. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.120.

74.132 Reading Skills III (1) An intermediate course in English as a second language. Emphasis is on comprehension of main ideas and supporting details, organization of texts, and vocabulary expansion. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.122.

74.134 Writing Skills III (1) An intermediate course in English as a second language. Emphasis is on moving from controlled writing to accurate free writing of expanded sentence

patterns. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.124.

74.136 Listening and Speaking Skills III (1) An intermediate course in English as a second language. Emphasis is on conversational listening and speaking skills. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.126.

74.140 Grammatical Analysis IV (1) A high intermediate course in English as a second language. Emphasis is on the complex grammatical structures characteristic of academic language. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.130.

74.142 Reading Skills IV (1) A high intermediate course in English as a second language. Emphasis is on increasing reading speed and comprehension and on word study. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.132.

74.144 Writing Skills IV (1) A high intermediate course in English as a second language. Emphasis is on mastery of paragraph development and proofreading. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.134.

74.146 Listening and Speaking Skills IV (1) A high intermediate course in English as a second language. Emphasis is on comprehension of academic discourse and extended oral production. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.136.

74.150 Reading and Text Analysis (3) An advanced course in English as a second language. Emphasis is on analytical reading and improving academic study skills. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.142.

74.151 Composition Skills and Grammar Review (3) An advanced course in English as a second language. Emphasis is on essay writing and error analysis. Usually offered every term. *Prerequisite:* admission by placement test or successful completion of 74.140 and 74.144.

74.180 English Workshop (3) Review course emphasizing fundamentals of grammar necessary for the improvement of writing skills. Does not fulfill the university English requirement. Usually offered every fall and spring.

74.200 College Reading and Writing I (3) An advanced course in reading and composition for international students whose competence in English qualifies them to take academic courses without special English. Emphasis is on academic reading and writing tasks, with attention to the residual language problems of nonnative speakers. Usually offered every term. Fulfills the first half of the university English requirement and the university competency requirement. (See also English requirement and competency certification under "Undergraduate Study" in this publication.) *Prerequisite:* admission by placement test or successful completion of 74.150/74.151 or 74.180.

74.201 College Reading and Writing II (3) A continuation of 74.200; emphasis on library and research techniques, including the writing of a research paper. Usually offered every term. Completes the university English requirement. (See also English requirement and competency certification under "Undergraduate Study" in this publication.) *Prerequisite:* 74.200.

74.280 College Writing Skills Workshop (3) For advanced students of English as a second language. Emphasis is on writing summaries and syntheses of materials drawn from a wide range of subject areas. Usually offered every term. Fulfills the university competency requirement for transfer students. (See also English competency certification under "Undergraduate Study" in this publication.) *Prerequisite:* admission by permission of instructor.

74.390 Independent Reading Course in English (1–6)

74.490 Independent Study Project in English (1–6)

Graduate and Advanced Undergraduate Courses

74.500 Graduate Writing Seminar I (3) Restricted to graduate international students. Emphasis on advanced reading and writing skills and on methods of technical writing appropriate to the graduate level. *Prerequisite:* admission by placement test or departmental recommendation.

74.501 Graduate Writing Seminar II (3) Restricted to graduate international students. Emphasis on library and research techniques and on writing a research paper. Usually offered every fall and spring. *Prerequisite:* admission by placement test or departmental recommendation.

Interdisciplinary Studies

Undergraduate Courses

75.490 Independent Study Project in Interdisciplinary Studies (1–6)

75.491 Internship (1–6) May be repeated for credit in the same term; topic may be the same.

Graduate and Advanced Undergraduate Courses

75.501 Integrated Seminar on Russia (3) A team-taught, interdisciplinary seminar, designed to provide a sense of cohesion through a coordinated approach. Emphasis on complex current problems facing the Soviet Union, both at home and abroad, with attention to their interrelationship and historical background. Usually offered every spring. *Prerequisite:* one course in Russian studies.

75.590 Independent Reading Course in Interdisciplinary Studies (1–6)

Graduate Courses

75.690 Independent Study Project in Interdisciplinary Studies (1–6)

75.691 Internship (1–6) May be repeated for credit in the same term; topic may be the same.

Women's Studies

Undergraduate Courses

76.250 Perspectives on Women /A (3) An exploration of the situation of the modern American woman in relation to

biology, psychology, gender roles, family, education, social and economic position, work patterns, government policy, law, arts, and sciences. Comparative perspectives from other world cultures and other periods of history. Usually offered every term.

76.350 Interpreting Women in Culture (3) An exploration of diverse aspects of women's cultural situation from different disciplinary perspectives. Rotating topics focus on specific subjects, integrating recent scholarship and interdisciplinary contexts. Representative topics: Women in International Development, Women and Men in American Culture, Women in Antiquity. Usually offered every spring.

76.490 Independent Study in Women's Studies (1–6)

76.491 Internship in Women's Studies (1–6) May be repeated for credit in the same term; topic must be different. *Prerequisite:* 76.250.

APEL

Undergraduate Courses

77.240 Documentation and Analysis of Field Experience (APEL) (3) Students construct a portfolio that identifies their prior experiential learning. Required of all students admitted to the APEL program and limited to them. Usually offered every term.

Study Abroad

92.300 Copenhagen Semester (1–3) In cooperation with the Denmark's International Study Program at the University of Copenhagen, students may take courses in liberal arts or international business. These courses, taught by European professors, are supplemented by extensive field trips. *Prerequisite:* consult the office of Study Abroad Programs.

94.300 Study Abroad in Poland (3–6) In cooperation with The Adam Mickiewicz University in Poznan, students may take courses in liberal arts and modern languages. Six hours of Polish language is compulsory for all participants. These courses are taught in English by European professors at the university's Institute of English. *Prerequisite:* consult the office of Study Abroad Programs.

95.390 Study Abroad: Independent Reading (3–6) An opportunity to do an independent reading course under faculty supervision while attending a study abroad program. *Prerequisite:* consult the office of Study Abroad Programs.

95.490 Study Abroad: Independent Study (3-6) An opportunity to do independent research under faculty supervision while attending a study abroad program. *Prerequisite:* consult the office of Study Abroad Programs.

1986–1987 Full-Time Faculty

The faculty list below covers the 1986–1987 academic year only.

The date in parentheses following each name is the year in which that faculty member was appointed to the full-time faculty. This list includes research and emeritus faculty as well as the regular full-time faculty. *Asterisk indicates department chair or director.

Aaronson, David E. (1970), B.A., M.A., Ph.D., The George Washington University; LL.B., Harvard University; LL.M., Georgetown University; Professor of Law and Justice.

Abele, Rudolph von (1947), A.B., Ph.D., Columbia University; Professor Emeritus of Literature.

Abravanel, Evelyn G. (1977), B.A., J.D., Case Western Reserve University; Professor of Law.

Adams, Elizabeth (1984), B.A., Syracuse University; M.S., Yeshiva University; M.S., The American University; Assistant Professor of Mathematics, Statistics, and Computer Science.

Alauddin, Arif (1985), B.S., University of Engineering and Technology in Pakistan; M.B.A., Quaid-i-Azam University; M.S., Massachusetts Institute of Technology; M.A. Harvard University; Instructor of Technology and Administration.

Aldridge, Mary H. (1955), B.S., University of Georgia; M.A., Duke University; Ph.D., Georgetown University; Professor Emerita of Chemistry.

Alexander, Benjamin H. (1985), B.A., University of Cincinnati; M.S., Bradley University; Ph.D., Georgetown University; Research Professor of Chemistry.

Alsaaty, Falih M.H. (1985), B.Sc., Baghdad University, Iraq; M.B.A., Ph.D., New York University; Assistant Professor of Business Administration.

Anderson, Laird B. (1973), B.S., Florida State University; M.A., The American University; Professor of Communication.

Anderson, Frederick R., Jr. (1985), B.A., University of North Carolina; B.A., Oxford University; J.D., Harvard Law School; Professor of Law and Dean of Washington College of Law.

Anderson, Richard R. (1966), B.S., Lewis and Clark College; M.S., Ph.D., University of Maryland; Professor of Biology.

Andrews, Meade (1977), B.A., Mary Washington College; M.A., University of Maryland; Ph.D., University of Georgia; Associate Professor of Performing Arts.

Anthon, Carl G. (1961), B.A., University of Chicago; M.A., Ph.D., Harvard University; Professor Emeritus of History.

Arnold, Raymond G. (1972), B.A., Alaska Methodist University; M.A., Ph.D., Boston University; Research Professor of Physics.

Arnold, Steven H. (1970), B.A., Occidental College; M.A., Ph.D., Johns Hopkins University; Associate Professor of International Service.

Bailey, Jessica M. (1981), B.S., M.Ed., Coppin State College; M.B.A., Ph.D., University of Missouri; Assistant Professor of Business Administration.

Baker, H. Kent (1975), B.S.B.A., Georgetown University; M.B.A., D.B.A., M.Ed., University of Maryland; M.S., The American University; C.F.A. and C.M.A.; Professor of Business Administration.

Baker, Isaiah (1979), B.A., Yale University; M.B.A., J.D., Columbia University; M.A., De Paul University; LL.M., Harvard University; Associate Professor of Law.

Baker, Kenneth (1966), B.A., M.A., University of Kansas; Associate Professor of Performing Arts.

Banta, William C. (1970), B.A., University of California at Berkeley; Ph.D., University of Southern California; Professor of Biology.

Baranovic, Boris I. (1966), B.A., Amherst College; M.F.A., Yale University; Assistant Professor of Performing Arts.

Barrett, Nancy Smith (1966), A.B., Goucher College; M.A., Ph.D., Harvard University; Professor of Economics.*

Barron, Austin M. (1971), B.S., City College of New York; M.S., Ph.D., Purdue University; Associate Professor of Mathematics, Statistics, and Computer Science.*

Bartfeld, Charles I. (1966), M.B.A., Ph.D., Columbia University; Professor of Business Administration.

Bassler, Richard A. (1969), B.S., University of Colorado; M.S., The George Washington University; Ph.D., Laurence University; Professor Emeritus of Technology and Administration.

Batchelder, Merritt C. (1935), B.A., Hillsdale College; M.A., Columbia University; Ph.D., Iowa State University; Professor Emeritus of Literature.

Bay, Zoltan Lajos (1986), Ph.D., University of Budapest; Research Professor of Physics.

Baya'a, Nimer (1984), B.A., M.A., University of Haifa; Ph.D., The American University. Assistant Professor of Mathematics, Statistics, and Computer Science.

Bean, Arthur P., Jr. (1963), B.A., M.A., University of Virginia; M.S., The Catholic University of America; Associate Professor Emeritus of Literature.

Beisner, Robert L. (1965), M.A., Ph.D., University of Chicago; Professor of History.*

Bennett, Betty T. (1985), B.A., Brooklyn College; M.A., Ph.D., New York University; Professor of Literature and Dean of the College of Arts and Sciences.

Bennett, Linda Anne Marshall (1982), B.A., Clarion State College; M.A., Indiana University; Ph.D., The American University; Research Associate Professor of Anthropology.

Bennett, Richard R. (1979), B.A., Randolph-Macon College; M.A., Florida State University; Ph.D., Washington State College; Associate Professor of Justice.

Berendzen, Richard (1974), B.S., Massachusetts Institute of Technology; M.A., Ph.D., Harvard University; Professor of Physics and University President.

Bergin, Thomas J. (1982), B.A., University of Maryland; M.A., Ph.D., The American University; Assistant Professor of Technology and Administration.

Berman, Alan L. (1969), B.A., Johns Hopkins University; Ph.D., The Catholic University of America; Professor of Psychology.

Betts, Madeleine (1969), B.A., M.A., Université d'Ottawa; Ph.D., University of Illinois; Associate Professor Emerita of Language and Foreign Studies.

Beveridge, Charles Eliot (1986), A.B., Harvard College; M.A., Ph.D., University of Wisconsin; Research Professor of History.

Biderman, Albert (1986), A.B., New York University; M.A., Ph.D., University of Chicago; Research Professor of Justice.

Bieler, Jack (1984), B.A., Temple University; M.S., Johns Hopkins University; Assistant Professor of Mathematics, Statistics, and Computer Science.

Biles, George E. (1976), A.A., Northern Virginia Community College; B.S., U.S. Naval Academy; A.M., The George Washington University; M.A., The American University; Ph.D., Ohio State University; A.P.D., C.C.P.; Professor of Business Administration.

Black, Harold Alonza (1985), B.B.A., University of Georgia; M.A., Ph.D., Ohio State University; Visiting Professor of Economics.

Blanchard, Phillip A. (1983), B.S., University of Maryland; M.B.A., Fairleigh Dickinson University; C.P.A.; Assistant Professor of Business Administration.

Blaustein, Eric Barry (1985), B.A., The George Washington University; M.S., Drexel University; M.P.A., University of Denver; D.P.A., The George Washington University; Assistant Professor of Technology and Administration.

Blecker, Robert A. (1985), B.A., Yale University; M.A., Ph.D. Stanford University; Assistant Professor of Economics.

Bliss, Edward Lydston (1968), B.A., Yale University; Professor Emeritus of Communication.

Blum, Annabelle M. (1966), B.S., University of Wisconsin; M.A., Ph.D., University of Chicago; Professor Emerita of Sociology.

Blum, Joseph (1965), B.S., City College of New York; A.M., Ph.D., The George Washington University; Professor of Mathematics, Statistics, and Computer Science.

Bodine, John J. (1968), B.A., University of Oklahoma; M.A., Ph.D., Tulane University; Professor of Anthropology.

Bonafede, Dom (1985), B.Litt., Rutgers University; Assistant Professor of Communication.

Bonham, G. Matthew (1972), B.A., Northwestern University; Ph.D., Massachusetts Institute of Technology; Professor of Government and Public Administration and International Service.

Boren, John (1969), B.A., University of Texas; M.A., Ph.D., Columbia University; Professor of Psychology.

Borkovec, Vera Z. (1966), undergraduate degree, Charles University, Prague, Czechoslovakia; M.A., Hollins College; M.A., The American University; Ph.D., Georgetown University; Associate Professor of Language and Foreign Studies.

Bowles, W. Donald (1957), B.A., University of Washington; M.A., Ph.D., Columbia University; Professor of Economics.

Boyle, James, D. A. (1982), LL.B., Glasgow University; LL.M., Harvard Law School; Associate Professor of Law.

Boynton, Robert P. (1969), A.B., Calvin College; A.M., Ph.D., University of Michigan; Professor and Director of the Center for Technology and Administration.

Brabanski, Lothar (1957), M.F.A., Berlin Academy of Fine Arts; Associate Professor Emeritus of Art.

Brandenburg, David J. (1948), B.S., Bowdoin College; M.A., Ph.D., Columbia University; Professor Emeritus of History.

Breitman, Richard David (1976), B.A., Yale College; Ph.D., Harvard University; Professor of History.

Brenner, Donald R. (1971), B.S., J.D., Ohio State University; Professor of Business Administration.*

Brenner, Philip J. (1981), B.A., Columbia University; M.A., Ph.D., Johns Hopkins University; Associate Professor of International Service.

Breyere, Edward J. (1961), B.S., M.S., Ph.D., University of Maryland; Professor of Biology.

Broder, Ivy (1975), B.A., Hunter College; M.A., Ph.D., State University of New York at Stony Brook; Associate Professor of Economics.

Broude, Norma (1975), A.B., Hunter College; M.A., Ph.D., Columbia University; Professor of Art.

Brown, Roger H. (1965), A.B., A.M., Ph.D., Harvard University; Professor of History.

Brumberg, Abraham (1984), B.S.S., City College of New York; M.A., Yale University; Visiting Research Professor of International Service.

Bryant, Coralie (1967), A.B., Barnard College; Ph.D., London School of Economics; Professor of Government and Public Administration and International Service.

Bulmash, Gary F. (1975), B.S., M.B.A., D.B.A., University of Maryland; C.P.A.; Associate Professor of Business Administration.*

Burhoe, Sumner O. (1956), B.S., University of Massachusetts; M.S., Kansas State University; Ph.D., Harvard University; University Professor Emeritus of Biology.

Burkart, Edward I. (1962), B.S., M.S., Georgetown University; Ph.D., University of Pennsylvania; Professor of Language and Foreign Studies.

Burkart, Grace Stovall (1960), A.B., Cornell University; M.A., The American University; Ph.D., Georgetown University; Professor of Language and Foreign Studies.

Burke, D. Barlow, Jr. (1970), A.B., Harvard College; LL.B., M.C.P., University of Pennsylvania; LL.M., Yale University; Professor of Law.

Burkhart, Geoffrey L. (1968), B.A., Oakland University; Ph.D., University of Rochester; Associate Professor of Anthropology.

Burns, Kathleen M. (1986), B.A., Clarke College; M.A., University of Wisconsin; Assistant Professor of Communication.

Burns, Kirk L. (1968), B.S., U.S. Naval Academy; M.A., University of Washington; Ph.D., University of Paris; Professor Emeritus of Technology and Administration.

Burr, Samuel Engle, Jr. (1947), Litt.B., State University, Rutgers; M.A., University of Wisconsin; M.A., Columbia University; Ed.D., University of Cincinnati; Professor Emeritus of Education.

Butts, James R. (1964), B.S., Virginia Polytechnic Institute; M.S., New York University; Associate Professor of Business Administration.

Callen, Earl R. (1968), A.B., M.A., University of Pennsylvania; Ph.D., Massachusetts Institute of Technology; Professor of Physics.

Cannon, Thomas F., Jr. (1972), A.B., A.M., Boston College; Ph.D., University of Virginia; Assistant Professor of Literature.

Cantor, Muriel G. (1968), B.A., M.A., Ph.D., University of California at Los Angeles; Professor of Sociology.

Cantrell, Thomas S. (1971), B.S., M.S., University of South Carolina; Ph.D., Ohio State University; Associate Professor of Chemistry.

Cao, Andrew D. (1976), B.S., Indiana University; M.B.A., The American University; D.B.A., The George Washington University; Associate Professor of Business Administration.

Caprio, Anthony (1980), B.A., Wesleyan University; M.A., Ph.D., Columbia University; Professor of Language and Foreign Studies.*

Carson, Frederick W. (1970), B.S., Massachusetts Institute of Technology; M.A., Washington University; Ph.D., University of Chicago; Associate Professor of Chemistry.

Chambless, Dianne L. (1982), B.A., Newcomb College of Tulane University; M.A., Ph.D., Temple University; Associate Professor of Psychology.

Chang, I-Lok (1970), B.S., California Institute of Technology; Ph.D., Cornell University; Associate Professor of Mathematics, Statistics, and Computer Science.

Charbonneaux, Marie A. (1960), B.A., M.A., University of Paris; Etudes Pratiques d'Anglais, Sorbonne; Associate Professor Emerita of Language and Foreign Studies.

Cheh, Albert Mei-chu (1980), B.A., Columbia College; Ph.D., University of California at Berkeley; Associate Professor of Chemistry.

Cheru, Fantu (1984), B.A., Colorado College; M.S., Ph.D., Portland State University; Assistant Professor of International Service.

Child, Jack (1982), B.E., Yale University; M.A., Ph.D., The American University; Associate Professor of Language and Foreign Studies.

Chinnis, Robert J. (1964), B.S., East Carolina University; M.Ed., University of North Carolina; Ed.D., University of Maryland; Associate Professor of Biology.

Chow, Esther Ngan L (1973), B.S., Chinese University of Hong Kong; M.S., Southern Illinois University; M.S., Ph.D., University of California at Los Angeles; Professor of Sociology.

Christodoulidis, Theodore (1986), J.D. equiv., Thessaloniki University; LL.M., University College, London; S.J.D. equiv., Thessaloniki University; Visiting Research Professor of International Service.

Clark, Charles M. (1941), A.B., M.A., Ph.D., Cornell University; Professor Emeritus of Literature.

Clark, Leon E. (1981), B.A., Yale University; M.A.T., Yale University; Ed.D., University of Massachusetts; Associate Professor of Education.

Clarke, Barbara J. (1974), B.A., M.S., University of Maine; Ph.D., Tulane University; Associate Professor of Biology.

Clarke, Duncan L. (1970), A.B., Clark University; J.D., Cornell University; Ph.D., University of Virginia; Professor of International Service.

Cleary, Robert E. (1965), B.A., M.A., Montclair State College; M.A., Ph.D., State University, Rutgers; Professor of Government and Public Administration and Dean of the College of Public and International Affairs.

Cohen, Stephen D. (1975), B.A., Ph.D., The American University; M.A., Syracuse University; Professor of International Service.

Connolly, Frank W. (1982), B.A., University of Scranton; M.S., The George Washington University; Assistant Professor of Technology and Administration.

Corr, John B. (1986), B.A., M.A., John Carroll University; Ph.D., Kent State University; J.D., Georgetown Law Center; Visiting Associate Professor of Law.

Côté, Paul Raymond (1985), B.A., College of The Holy Cross; M.A., Middlebury Graduate School; Ph.D., McGill University; Assistant Professor of Language and Foreign Studies.

Coward, Billy G. (1964), B.S., B.A., M.A., The American University; Associate Professor of Physical Education.

Cromwell, William C. (1962), B.A., Emory University; M.A., Ph.D., The American University; Professor of International Service.

Crone, Lawrence J. (1984), B.A., Ph.D., The Catholic University of America; Associate Professor of Mathematics, Statistics, and Computer Science.

Crosby, David S. (1966), B.A., The American University; M.A., Ph.D., University of Arizona; Professor of Mathematics, Statistics, and Computer Science.

Crowder, Charles F. (1967), B.M., Lawrence College; M.A., Columbia University; Professor of Performing Arts.

Cubberly, Elizabeth P. (1952), LL.B., The American University; Professor Emerita of Law.

Culnan, Mary J. (1985), A.B., College of Wooster; M.S., Florida State University; Ph.D., University of California at Los Angeles; Associate Professor of Busines Administration.

Dallas, Lynne L. (1984), B.A., University of Rochester; J.D., Harvard University; Associate Professor of Law.

David, Robert L. (1974), B.S., M.A., Ph.D., Washington University; Associate Professor of Sociology.*

Davis, Harold E. (1947), B.A., Hiram College; M.A., University of Chicago; Ph.D., Case Western Reserve University; University Professor Emeritus of History and International Service.

DeLone, William H. (1986), B.S., Villanova University; M.S., Carnegie-Mellon University; Ph.D., University of California, Los Angeles; Assistant Professor of Business Administration.

Delong, Earl H. (1963), B.S., M.A., Ph.D., Northwestern University; Professor and Dean Emeritus of Government and Public Administration.

Denbo, Sheryl (1981), B.S., University of Wisconsin; M.A., New School for Social Research; Ph.D., Rutgers University; Research Associate Professor of Education.

Dernburg, Thomas F. (1975), B.A., Swarthmore College; M.A., Ph.D., Yale University; Professor of Economics.

DeWitt, Karen E. (1986), B.A., Miami University; Assistant Professor of Communications.

Dhillon, Gita L. (1966), B.Sc., Christian Medical College Hospital; M.Ed., Columbia University; Associate Professor of Nursing.

DiBacco, Thomas V. (1965), B.A., Rollins College; M.A., Ph.D., The American University; Professor of Business Administration.

Doolittle, John (1980), B.S., Northwestern University; M.A., University of Georgia; Ph.D., University of Wisconsin at Madison; Associate Professor of Communication.

Douglass, John S. (1978), B.A., M.A., The American University; Associate Professor of Communication.

Durfee, Harold A. (1955), Ph.B., University of Vermont; B.D., Yale University; Ph.D., Columbia University; William Frazier McDowell Professor of Philosophy and Religion.

Edelman, Richard B. (1983), B.S., M.B.A., D.B.A., University of Maryland; C.P.A.; Professor of Business Administration.*

Einhorn, Raymond (1973), B.S., University of Florida; M.S., University of Illinois; C.P.A.; Associate Professor of Business Administration.

Eisenmann, Roberto (1986), Journalist in Residence.

El Khadem, Hassan S. (1984), B.Sc., Cairo University; D.Sc.Tech., E.T.H. Zurich; D.Sc., University of Alexandria; D.Sc., University of London; Ph.D., Imperial College; Professor of Chemistry and Horace and May Isbell Chair in Natural Products Chemistry.

Eno, Irene W. (1961), Certificate, Sackers School of Design; Professor Emerita of Art.

Epstein, Jose (1985), B.S., Licenciate, Universidad Technica de Oruro, Bolivia; Licenciate, Universidad Mayor de San Andres, Bolivia; Professor of Economics.

Erwin, Joseph (1986), B.A., University of the Pacific; M.A., Ph.D., University of California; Research Professor of Psychology.

Evans, June (1982), B.A., Goucher College; Ph.D., The American University; Research Associate Professor of Anthropology.

Farsoun, Samih K. (1973), A.B., Hamilton College; M.A., Ph.D., University of Connecticut; Associate Professor of Sociology.

Ferren, Ann (1985), A.B., Radcliffe College; M.A.T., Harvard Graduate School of Education; Ed.D., Boston University; Associate Professor of Education and Associate Dean of Faculties.

Figart, Deborah (1984), B.A., M.A., Wheaton College; Ph.D., The American University; Assistant Professor of Economics.

Finan, John J. (1961), A.B., A.M., Washington University; Ph.D., Harvard University; Professor of International Service.

Finn, Patricia Ann (1969), B.S.N., M.S.N., The Catholic University of America; Associate Professor of Nursing.

Fishel, Jeff (1979), B.A., M.A., San Diego State College; Ph.D., University of California at Los Angeles; Professor of Government and Public Administration.

Flacco, Paul R. (1984), A.B., University of California at Santa Cruz; M.S., Oregon State University; Ph.D., University of Oregon; Assistant Professor of Economics.

Fleuret, Anne (1985), B.A., M.A., Ph.D., University of California at Santa Barbara; Research Associate Professor of Anthropology.

Foley, Robert T. (1967), B.S., University of Massachusetts; M.S., Lafayette College; Ph.D., University of Texas; Professor Emeritus of Chemistry.

Ford, Gary T (1985), B.B.A., Clarkson College of Technology; M.B.A., Ph.D., State University of New York at Buffalo; Professor of Business Administration.

Fox, Richard H. (1970), A.B., Nothwestern University; Ph.D., University of Hawaii; Associate Professor of Biology.

Fox, Robert P. (1971), B.S., M.S., Georgetown University; Ph.D., University of Illinois; Professor of Language and Foreign Studies.

Frady, James D., Jr. (1964), B.A., M.Ed., University of North Carolina; Associate Professor of Physical Education.

Frailey, Robert H. (1949), B.S., M.A., The American University; Professor of Physical Education.*

Frame, Michael (1986), B.S., University of Maryland; M.Sc., George Washington University; Assistant Professor of Mathematics, Statistics, and Computer Science.

French, Valerie (1972), B.A., Cornell University; M.A., Ph.D., University of California at Los Angeles; Associate Professor of History.

Frost, Robert L. (1986), B.A., Grinnell College; M.A., Ph.D., University of Wisconsin, Madison; Assistant Professor of History.

Furber, Lincoln M. (1977), B.A., Middlebury College; M.S., Columbia University; Associate Professor of Communication.

Fyfe, James J. (1979), B.A., John Jay College; M.A., Ph.D., State University of New York at Albany; Associate Professor of Justice.

Gabriel, Ralph H. (1958), B.A., M.A., Ph.D., Yale University; University Professor Emeritus of International Service.

Gammon, William H. (1970), B.A., D.B.A., The George Washington University; M.A., The American University; Associate Professor Emeritus of Technology and Administration.

Garrard, Mary D. (1964), B.A., Newcomb College; M.A., Radcliffe College; Ph.D., Johns Hopkins University; Professor of Art.*

Geiser, Daniel S. (1966), B.A., Juniata College; M.A., Ohio State University; Ed.D., Columbia University; Professor Emeritus of Physical Education.

Gibian, Gary L. (1982), B.S., Massachusetts Institute of Technology; M.A., Ph.D., Washington University; Assistant Professor of Physics.

Gimble, Josephine G. (1966), B.A., The American University; M.S.N., The Catholic University of America; M.P.H., Dr.P.H., Johns Hopkins University; Professor and Acting Dean of Nursing.

Girard, James E. (1979), B.A., Lewis College; Ph.D., Pennsylvania State University; Professor of Chemistry.*

Glazer, Herbert (1968), A.B., A.M., Ph.D., Boston University; Professor of Business Administration.*

Glenn, Vicki (1986), B.A., Macalester College; Instructor of Communications.

Gold, Kenneth A. (1983), B.A., City College of New York; M.A., Ph.D., Pennsylvania State University; Assistant Professor of International Service.

Goldin, Jessica W. (1966), B.A., Long Island University; M.A., Columbia University; Associate Professor of Language and Foreign Studies.

Goldman, Joseph (1986), M.S., Moscow State University; Ph.D., The Kurchatov Atomic Energy Institute, Moscow; Research Professor of Physics.

Goldman, Robert K. (1971), B.A., University of Pennsylvania; J.D., University of Virginia; Professor of Law.

Gondos, Dorothy D. (1947), B.A., Swarthmore College; M.A., Ph.D., University of Pennsylvania; Professor Emerita of History.

Goodman, Charles H. (1956), B.S.C., Wilson Teachers College; M.S.C., Ph.D., Pennsylvania State University; Professor Emeritus of Government and Public Administration.

Goodman, Louis W. (1986), A.B., Dartmouth College; M.A., Ph.D., Northwestern University; Professor and Dean of the School of International Service.

Gordon, Nancy S. (1978), A.B., Mount Holyoke College; Ph.D., Boston University; Associate Professor of Chemistry

Gorman, Ronald H. (1969), B.B.A., M.B.A., University of Cincinnati; Ph.D., Ohio State University; Associate Professor of Business Administration.

Gottfried, Linda E. (1986), B.F.A., Florida State University; M.A., University of Iowa; M.P.A., Syracuse University; Assistant Professor of Performing Arts.

Graham, Michael T. (1973), B.A., University of Pennsylvania; M.F.A., Yale University; Associate Professor of Art.

Grala, Maria (1986), M.A., Ph.D., Adam Mickiewicz University; Visiting Assistant Professor of Language and Foreign Studies.

Gray, James J. (1970), B.A., Maryknoll College; M.A., Ph.D., Fordham University; Professor of Psychology.

Gray, Mary W. (1968), A.B., Hastings College; M.A., Ph.D., University of Kansas; J.D., The American University; Professor of Mathematics, Statistics, and Computer Science.

Grebe, Stephen C. (1976), A.B., University of Pennsylvania; Ph.D., University of Texas; Associate Professor of Biology.

Greenberg, Gershon (1973), B.A., Bard College; Ph.D., Columbia University; Associate Professor of Philosophy and Religion.

Greenberg, Milton (1980), B.A., Brooklyn College; M.A., Ph.D., University of Wisconsin; Professor of Government and Public Administration and Provost/Vice President for Academic Affairs.

Greene, Michael A. (1976), B.A., Columbia University; Ph.D., Carnegie-Mellon University; Associate Professor of Mathematics, Statistics, and Computer Science.

Gregg, Robert W. (1970), A.B., Colgate University; Ph.D., Cornell University; Professor of International Service.

Griffith, Ernest S. (1958), A.B., Hamilton College; D.Phil., Oxford University; University Professor and founding Dean Emeritus of the School of International Service.

Gross, Chalmer A. (1959), B.A., M.S., University of Illinois; Ph.D., University of Chicago; Professor Emeritus of Education.

Grossman, Claudio (1983), Licenciado en Ciencias Jurisdica Y Sociales, University of Chile; Doctor in Law, University of Amsterdam; Professor of Law.

Guttman, Egon (1968), LL.B., LL.M., Northwestern University; Professor of Law.

Hackel, Ritva (1984), B.S.N., Case Western Reserve University; M.S.N., The Catholic University of America; Assistant Professor of Nursing.

Hadary, Doris E. (1962), B.S., University of Illinois; M.S., Ph.D., University of Wisconsin; University Professor of Chemistry.

Hagan, Ann Arthur (1981), B.S., M.S., Ph.D., University of Illinois; Assistant Professor of Biology.

Hahnel, Robin Eric (1976), B.A., Harvard University; Ph.D., The American University; Associate Professor of Economics.

Halpern, Katherine S. (1970), B.A., Vassar College; Ph.D., University of Chicago; Professor Emerita of Anthropology.

Hammond, Susan (1972), A.B., Bryn Mawr College; M.A., Ph.D., Johns Hopkins University; Professor of Government and Public Administration.

Hampton, Joseph E. (1961), B.S., University of Florida; M.A., Ph.D., Ohio State University; C.P.A.; Professor of Business Administration.

Han, Pierre (1964), B.A., The Catholic University of America; M.A., Ph.D., Columbia University; Professor Emeritus of Literature.

Hanus, Jerome J. (1966), B.A., University of Seattle; M.A., University of Washington; Ph.D., University of Maryland; Professor of Government and Public Administration.

Harbaugh, Joseph D. (1984), B.S., Saint Joseph's College; LL.B., University of Pittsburgh; LL.M., Georgetown University; Professor of Law.

Hardwick, Charley D. (1967), B.A., Southern Methodist University; M.A., Drew University; Ph.D., Yale University; Professor of Philosophy and Religion.

Harnden, Glenn P. (1969), A.B., M.A., Stanford University; Professor of Communication.

Harris, George L. (1965), B.A., University of Washington; Ph.D., The Catholic University of America; Professor Emeritus of Anthropology and International Service.

Harrison, Mark (1960), B.S., North East Missouri State College; Ph.D., The Catholic University of America; Professor Emeritus of Physics.

Hattery, Lowell H. (1948), A.B., Ohio University; Ph.D., The American University; Professor Emeritus of Government and Public Administration and of Technology and Administration.

Hawke, Virginia E. (1950), B.S., M.A., Ohio State University; Professor Emerita of Physical Education.

Hayden, Linda (1986), B.A., Virginia State University; M.A., University of Cincinnati; M.S., Old Dominion University; Instructor of Mathematics, Statistics, and Computer Science.

Hayes, Evelyn S. (1951), B.M., University of Kansas; University Professor Emerita of Music.

Haynie, Ronald M. (1984), B.A., M.F.A., The American University; Assistant Professor of Art.

Healy, Paul (1980), B.A., University of Detroit; M.A., Wayne State University; Assistant Professor of Mathematics, Statistics, and Computer Science.

Hendrix, J. Allen (1965), B.A., East Texas State University; M.A., University of Oklahoma; Ph.D., Louisiana State University; Professor of Communication.

Hermens, Ferdinand A. (1978), Diploma, Ph.D., University of Bonn; Research Professor of Government and Public Administration.

Higgins, Richard G, Jr. (1983), B.A., M.P.A., Ph.D., Syracuse University; Assistant Professor of Government and Public Administration.

Hill, Ronald Paul (1983), B.S.B.A., M.B.A., Ph.D., University of Maryland;. Assistant Professor of Business Administration.

Hirano, Marjorie Y. (1967), B.E., University of Hawaii; M.S., Illinois Institute of Technology; Associate Professor of Art.

Hirschmann, David (1986), B.A., University of Witwatersrand, Johannesburg; B.A., B.L., Abe Bailey Travel Bursary to Britain; M.A., South African Institute of International Affairs; Ph.D., National University Lesotho; Assistant Professor of International Service.

Hodinko, Bernard A. (1967), B.S., California State College; M.A., University of West Virginia; Ed.D., Pennsylvania State University; Professor of Education.

Holliday, Frances (1959), B.S., Northwest Missouri State University; M.A., University of Missouri; Ed.D., The George Washington University; Professor Emerita of Education.

Holmberg, Stevan R. (1977), B.S., University of Tulsa; M.B.A., D.B.A., Indiana University; Professor of Business Administration.

Holzsager, Richard A. (1970), A.B., Columbia University; A.M., Ph.D., Harvard University; Professor of Mathematics, Statistics, and Computer Science.

Hood, Mary Ann (1957), B.A., M.A., Michigan State University; M.A., The American University; Associate Professor of Language and Foreign Studies.

Howell, Llewellyn D., Jr. (1974), B.S., State University of New York at Brockport; M.A., Florida State University; Ph.D., Syracuse University; Professor of International Service.

Hubbell, Josephine W. (1962), B.S., College of William and Mary; M.A., State University of Iowa; Ph.D., New York University; Professor Emerita of Physical Education.

Huber, Franz E. (1970), B.A., M.A., Ph.D., University of Michigan; Associate Professor Emeritus of Education.

Humphries, Gail (1983), B.A., Allegheny College; M.A., The American University; Assistant Professor of Performing Arts.

Hunsberger, Warren S. (1966), B.A., Ph.D., Yale University; Professor Emeritus of Economics and International Service.

Husted, Thomas A. (1986), A.B., University of Michigan, Ann Arbor; Instructor of Economics.

Ibish, Yusuf (1985), B.A., M.A., American University of Beirut; M.A., Ph.D., Harvard University; Visiting Professor of International Service and Holder of Chair in Islamic Studies.

Igersheim, Roy H. (1983), B.S., University of Pittsburgh; M.B.A., Syracuse University; M.S., The American University; Assistant Professor of Technology and Administration.

Irish, Marian D. (1966), B.A., Barnard College; M.A., Bryn Mawr College; Ph.D., Yale University; Professor Emerita of International Service.

Isbell, Horace S. (1968), B.S., M.S., University of Denver; Ph.D., University of Maryland; Research Professor of Chemistry.

Iusi-Scarborough, Grace E. (1986), B.A., M.A., Ph.D., University of Rochester; Assistant Professor of International Service.

Ivison, Sterling H., Jr. (1974), B.S., Massachusetts Institute of Technology; M.B.A., Harvard University; Associate Professor Emeritus of Business Administration.

Jacob, Thomas (1986), B.Sc., M.Sc., Dibrugarh University, India; B.Ed., Utkal University, India; Instructor of Mathematics, Statistics, and Computer Science.

Jacobs, David Carroll (1986), B.A., M.A., University of Michigan; Ph.D., Cornell University; Assistant Professor of Business Administration.

Jacobs, Frederic (1985), B.A., Dickinson College; M.A., Ph.D., University of Pennsylvania; Professor of Education and Dean of Faculties.

Jacoby, Philip F. (1972), A.B., Boston College; M.S., Northeastern University; Ph.D., The George Washington University; C.P.A.; Associate Professor of Business Administration and Associate Dean of the Kogod College of Business Administration.

James, Dorothy B. (1980), B.A., Barnard College; M.A., Ph.D., Columbia University; Professor and Dean of the School of Government and Public Administration.

James, Louis C. (1957), B.S., LL.B., University of Virginia; M.A., LL.M., Columbia University; Professor Emeritus of Law.

Jaszi, Peter A. (1976), A.B., J.D., Harvard University; Professor of Law.

Jernigan, Robert Wayne (1978), B.A., M.A., Ph.D., University of South Florida; Professor of Mathematics, Statistics, and Computer Science.

Johnson, Robert (1977), B.A., Fairfield University; Ph.D., State University of New York at Albany; Professor of Justice.

Jordan, Frank (1979), B.A., University of Pittsburgh; M.S., Columbia University; J.D., The American University; Professor of Communication.

Jorgens, Jack J. (1975), B.A., Carleton College; M.A., City College of New York; Ph.D., New York University; Professor of Literature.

Joughin, Jean T. (1959), B.A., M.A., Ph.D., University of Texas; Professor Emerita of History.

Kaplan, Barbara H. (1968), B.A., Ph.D., Melbourne University; Professor of Sociology.

Karadbil, Laura L. (1958), B.S.B.A., M.B.A., Ph.D., The American University; C.P.A.; Professor of Business Administration.

Karch, Robert C. (1969), B.S., University of Maryland; M.Ed., Ed.D, The American University; Professor of Physical Education.

Kaufman, Mary M. (1980), B.A., University of Wisconsin at Madison; M.Ln., Emory University; Assistant Librarian.

Kay, Richard B. (1967), B.S., Drury College; M.S., Ph.D., University of Arkansas; Professor of Physics.*

Kazin, Michael (1985), B.A., Harvard University; M.A., Portland State University; Ph.D., Stanford University; Assistant Professor of History.

Keck, Andrew S. (1946), B.A., Williams College; M.A., M.F.A., Princeton University; University Professor Emeritus of Art.

Kehoe, Patrick E. (1973), B.C.S., Seattle University; J.D., M.L.Libr., University of Washington; Professor of Law and Law Librarian.

Kelly, Deborah Persis (1983), B.S., University of Vermont; M.A., Ph.D., Johns Hopkins University; Assistant Professor of Government and Public Administration.

Kelly, Faye L. (1962), A.B., M.A., Ph.D., University of Florida; Professor Emerita of Literature.

Kennevan, Walter J. (1969), B.C.S., M.C.S., M.F.A., The Catholic University of America; Professor Emeritus of Technology and Administration.

Kerwin, Cornelius M. (1975), B.A., The American University; M.A., University of Rhode Island; Ph.D., Johns Hopkins University; Associate Professor of Government and Public Administration.

Kessler, Edward L. (1967), A.B., University of Virginia; M.A., Ph.D., Rutgers State University; Professor of Literature.

Khambata, Dara M. (1982), B.S., Emerson College; M.B.A., Columbia University; M.B.A., University of Karachi; D.B.A., The George Washington University; Professor of Business Administration.

King, A. Allen (1965), B.S., LL.B., University of Tulsa; LL.M., University of Michigan; Professor Emeritus of Law.

King, Frances H. (1957), B.A., Western College; M.A., Ohio State University; Professor Emerita of Literature.

Kingston, Howard M. (1985), A.S., Harrisburg Area Community College; B.S., M.S., Indiana University of Pennsylvania; Ph.D., The American University; Research Professor of Chemistry.

Kittrie, Nicholas N. (1964), LL.B., M.A., University of Kansas; LL.M., S.J.D., Georgetown University; Professor of Law.

Klein, Ira N. (1968), B.S., M.A., Ph.D., Columbia University; Associate Professor of History.

Knaus, Rodger (1982), B.S., Yale University; M.S., University of California at Berkeley; Ph.D., University of California at Irvine; Assistant Professor of Mathematics, Statistics, and Computer Science.

Knefelkamp, L. Lee (1986), B.A., Macalester College; M.A., Ph.D., University of Minnesota; Associate Professor and Dean of Education.

Koehler, David H. (1970), B.S., University of Wisconsin; Ph.D., Syracuse University; Professor of Government and Public Administration.

Koenig, Dolores B. (1980), A.B., University of Chicago; M.A., Ph.D., Northwestern University; Assistant Professor of Anthropology.

Kokus, John, Jr. (1969), B.S., University of California at Berkeley; M.S., California State University; Ph.D., The American University; Associate Professor of Business Administration.

Korin, Basil P. (1961), B.A., University of Connecticut; M.S., Stanford University; Ph.D., The George Washington University; Professor of Mathematics, Statistics, and Computer Science.

Kovacic, Candace S. (1981), A.B., Wellesley College; J.D., Northeastern University; Professor of Law.

Kraut, Alan (1974), B.A., Hunter College; M.A., Ph.D., Cornell University; Professor of History.

Krieger, Laurie E. (1986), B.A., M.A., Barnard College; Ph.D., University of North Carolina at Chapel Hill; Assistant Professor of Anthropology.

Kroetch, Brent G. (1981), B.A., University of Colorado; M.S., Ph.D., University of Oregon; Assistant Professor of Economics.

Kumar, P.C. (1980), B.Sc., University of Bombay; B.E., University of Baroda; D.B.M., University of Madras; Ph.D., Pennsylvania State University; Associate Professor of Business Administration.

Kummer, Laura B. (1967), B.S.N.E., University of Pittsburgh; M.S., Case Western Reserve University; Ed.D., Indiana University; Dean Emerita and Professor Emerita of Nursing.

Kusterer, Ken C. (1973), B.A., Yale University; M.A., Ph.D., Washington University; Associate Professor of Sociology.

Kutina, Jan (1980), Ph.Mr. (Magister of Pharmacy), R.N.Dr. (Rerum Naturalium Doctor), C.Sc. (Candidate of Sciences), Charles University, Prague; Research Professor of Chemistry.

Kuznick, Peter J. (1986), B.A., M.A., Ph.D., Rutgers University; Assistant Professor of History.

Lackey, Louana M. (1983), B.A., Ph.D., The American University; Research Associate Professor of Anthropology.

La Monaca, Paul (1986), B.S., LaSalle College; M.S., The American University; Instructor of Business Administration.

Landman, Ruth H. (1965), A.B., Vassar College; M.A., Ph.D., Yale University; Professor of Anthropology.

Landon, Kenneth P. (1965), B.A., Wheaton College; Th.B., Princeton University; M.A., Ph.D., University of Chicago; Professor Emeritus of International Service.

Lane, Ruth Allen (1967), B.S., Simmons College; Ph.D., Georgetown University; Associate Professor of Government and Public Administration.

Lang. Lynn Z. (1986), B.A., James Madison University; M.Ed., University of Virginia; Ed.D., Virginia Polytechnic and State University; Assistant Professor of Education.

Langbein, Laura Irwin (1973), B.A., Oberlin College; Ph.D., University of North Carolina; Professor of Government and Public Administration.

Larson, Charles (1970), B.A., M.A., University of Colorado; Ph.D., Indiana University; Professor of Literature.

Lawrowycz, Romana Z. (1984), B.A., University of Connecticut; M.S., The American University; Instructor of Business Administration.

Leap, William L. (1970), B.A., Florida State University; Ph.D., Southern Methodist University; Associate Professor of Anthropology.*

Lee, Judith (1986), B.A., University of Southern California; M.A., Northeastern University; Ph.D., State University of New York at Binghamton; Assistant Professor of Literature.

Leedy, Paul D. (1961), A.B., Dickinson College; M.A., University of Pennsylvania; Ph.D., New York University; Professor Emeritus of Education.

Leogrande, William (1982), A.B., M.A., Ph.D., Syracuse University; Associate Professor of Government and Public Administration.

Leventhal, Allan M. (1968), B.A., Lafayette College; M.A., Kent State University; Ph.D., State University of Iowa; Professor of Psychology.

Levine, Steven I. (1979), A.B., Brandeis University; Ph.D., Harvard University; Associate Professor of International Service.

Levinson, Nanette Segal (1980), A.B., Ed.M., Ed.D., Harvard University; Associate Professor of Technology and Administration.

Lichtenstein, Michael J. (1986), B.A., Brandeis University; M.A., Ph.D., University of Pennsylvania; Assistant Professor of Justice.

Lichtman, Allan J. (1973), B.A., Brandeis University; Ph.D., Harvard University; Professor of History and Associate Dean of the College of Arts and Sciences.

Lieber, Harvey (1969), B.A., Yeshiva University; M.P.A., Syracuse University; Ph.D., Columbia University; Associate Professor of Government and Public Administration.

Lindsay, Michael (1959), B.A., M.A., Oxford University; Professor Emeritus of International Service.

Linowes, Richard G. (1986), B.A., Princeton University; M.S., University of Michigan; D.B.A., Harvard University; Assistant Professor of Business Administration.

Loesberg, Jonathan (1982), A.B., Brown University; M.A., Ph.D., Cornell University; Associate Professor of Literature.

Long, Lynette (1984), B.S., M.S., Ph.D., University of Illinois; Associate Professor of Education.

Long, Nicholas J. (1968), B.A., Wayne State University; Ph.D., University of Michigan; Professor of Education.

Lorimer, Frank (1938), B.A., Yale University; B.D., Union Theological Seminary; M.A., University of Chicago; Ph.D., Columbia University; Professor Emeritus of Sociology.

Losey, Robert L. (1982), B.A., Centre College of Kentucky; M.A., Ph.D., University of Kentucky; Associate Professor of Business Administration.

Lubic, Robert B. (1965), A.B., LL.B., University of Pittsburgh; M.P.L., Georgetown University; Professor of Law.

Lubrano, Linda L. (1968), B.A., Hunter College; M.A., Ph.D., Indiana University; Professor of International Service.

Lustig, Arnost (1973), M.A., Ing. , University of Prague; Professor of Literature.

Lynch, James P. (1985), B.A., Wesleyan University; M.A., Ph.D., University of Chicago; Assistant Professor of Justice.

Machlin, Claire T. (1966), B.A., Hunter College; M.A., The George Washington University; Assistant Professor of Mathematics, Statistics, and Computer Science.

Maday, Bela Charles (1982), Ph.D., Pazmany University; Research Professor of Anthropology.

Magnotti, John F., Jr. (1981), B.S., U.S. Military Academy; M.A., University of Maryland; Ph.D., The American University; Assistant Professor of Business Administration.

Malloy, James A., Jr. (1971), B.A., Morris Harvey College; M.A., Ph.D., Ohio State University; Associate Professor of History.

Mandel, Alan R. (1966), B.S., M.S., Juilliard School of Music; Professor of Performing Arts.

Mantel, Nathan (1982), B.S., City College of New York; M.A., The American University; Research Professor of Mathematics, Statistics, and Computer Science.

Mardirosian, Haig (1976), B.M., M.M., D.M.A., The Catholic University of America; Associate Professor of Performing Arts.

Martin, David Clarke (1981), B.A., University of Louisville; M.B.A., University of Toledo; Ph.D., University of Maryland; Assistant Professor of Business Administration.

Martin, Mary L. (1958), LL.B., The American University; Professor Emerita of Law.

Martyn, Howe (1961), B.A., University of Toronto; M.A., Oxford University; Professor Emeritus of Business Administration.

Mason, Velma Garcia (1985), B.A., Carlow College; M.A., University of Arizona; Ph.D., University of New Mexico; Research Assistant Professor of Anthropology.

Mason, Vito E. (1966), B.S., New York University; M.S., Ithaca College; Professor Emeritus of Performing Arts.

Mass, Michael A. (1974), B.S., University of Pennsylvania; J.D., Georgetown University; Associate Professor of Business Administration.

Matthews, Jeanne A. (1984), B.S., Hunter College; M.S., University of Rochester; Assistant Professor of Nursing.

Mathur, Subodh Chand (1981), B.A., St. Stephen's College, Delhi; M.A., Delhi School of Economics; Ph.D., Massachusetts Institute of Technology; Assistant Professor of Economics.

May, James P. (1982), B.A., Carleton College; J.D., Harvard Law School; Associate Professor of Law.

Mazis, Michael B. (1979), B.S., University of Pennsylvania; M.B.A., New York University; Ph.D., Pennsylvania State University; Professor of Business Administration.*

McCarthy, Barry W. (1969), B.A., Loyola University; M.A., Ph.D., Southern Illinois University; Professor of Psychology.

McCreary, Carolyn (1986), B.S., Gettysburg College; M.A., Ph.D., University of Colorado; Assistant Professor Mathematics, Statistics, and Computer Science.

McCue, Edmund B. (1964), A.B., Union College; M.S., University of Michigan; Ph.D., Carnegie Institute of Technology; Associate Professor of Mathematics, Statistics, and Computer Science.

McCurdy, Howard E. (1968), B.A., M.A., University of Washington; Ph.D., Cornell University; Professor of Government and Public Administration.

McDonald, Anne (1986), B.A., University of California; M.F.A., United States International University; Assistant Professor of Performing Arts.

McFeeter, Ruth (1955), B.S., Beaver College; M.A., Columbia University; Associate Professor of Physical Education.

McGinnies, Elliott M. (1971), B.A., University of Buffalo; M.A., Brown University; Ph.D., Harvard University; Professor of Psychology.

McLain, James L. (1935), B.A., The George Washington University; Certificate, Peabody Conservatory of Music; Professor Emeritus of Music.

McLaughlin, Charles C. (1963), B.A., Yale University; M.A., Ph.D., Harvard University; Professor of History.

McNett, Charles W. (1967), B.A., Ph.D., Tulane University; Professor of Anthropology.

Meadows, Martin (1961), B.A., M.A., Ph.D., University of Oregon; Professor of Government and Public Administration.

Meaney, Donald V. (1985), B. Lit., Rutgers University; Assistant Professor of Communication.

Medish, Vadim (1963), B.A., University of Pennsylvania; M.A., Ph.D., The American University; Professor of Language and Foreign Studies and International Service.

Mehler, Barry I. (1982), B.A., University of Richmond; M.B.A., The American University; C.P.A.; Associate Professor of Business Administration.

Mehlert, Peter (1972), B.S., Boston University; M.A., The American University; Assistant Professor of Physical Education.

Mendelson, Johanna (1986), B.A. Queens College of CUNY; M.I.A., Columbia University; M.A., Ph.D., Washington University; Assistant Professor of Government and Public Administration.

Messersmith, Craig E. (1969), B.A., Hobart College; M.Ed., Ed.D., Pennsylvania State University; Associate Professor of Education.

Michaud, Paula (1986), B.S.N., M.S.N., Boston University; Instructor of Nursing.

Miller, Alan (1986), A.B., Cornell University; J.D., University of Michigan; Visiting Assistant Professor of Law.

Miller, Dennis D. (1962), B.S., Goshen College; M.Ed., Kent State University; Ed.D., The American University; Associate Professor Emeritus of Education.

Miller, Leroy Louis (1983), B.A., Washington State University; Ph.D., University of Bonn; Assistant Professor of International Service.

Milstein, Elliott S. (1972), B.A., University of Hartford; J.D., University of Connecticut; LL.M., Yale University; Professor of Law.

Minns, Daniel Richard (1985), A.B., Heidelberg College; M.A., The George Washington University; Ph.D., Indiana University; Assistant Professor of Government and Public Administration.

Mittlebeeler, Emmet V. (1954), B.A., LL.B., University of Louisville; M.A., Ph.D., University of Chicago; University Professor Emeritus of Government and Public Administration.

Mize, Marisa (1986), B.S.N., University of California, San Francisco; M.S.N., The Catholic University of America; Assistant Professor of Nursing.

Mokatrin, Ahmed (1985), B.A., University of Haifa; M.A., The Hebrew University; Instructor of Mathematics, Statistics, and Computer Science.

Money, William (1986), B.A., University of Richmond; M.B.A., Indiana University; Ph.D., Northwestern University; Associate Professor of Technology and Administration.

Moneymaker, James M. (1984), B.A., University of South Carolina; M.A., M.Phil., Ph.D., City University of New York; Assistant Professor of Justice.

Moore, Donald T. (1967), B.F.A., M.F.A., Ohio University; M.A., The American University; Associate Professor of Business Administration.

Moore, Harvey C. (1951), B.A., University of Delaware; Ph.D., University of New Mexico; Professor Emeritus of Anthropology.

Morella, Anthony C. (1961), A.B., Boston University; J.D., The American University; Professor of Law and General Counsel.

Morris, Valerie (1974), B.A., M.A., The American University; Associate Professor of Performing Arts.*

Morrison, Susan (1986), B.S., Ball State University; Assistant Professor of Communications.

Mott, Albert D. (1958), B.A., M.A., University of Missouri; Ph.D., University of California at Berkeley; Professor of International Service.

Mowlana, Hamid (1968), B.A., M.S., Ph.D., Northwestern University; Professor of International Service.

Moyer, Kermit W. (1970), B.A., M.A., Ph.D., Northwestern University; Associate Professor of Literature.

Mroczowski, Tomasz (1985), M.S., Jagiellonian University; Ph.D., Academy of Economics, Krakow, Poland; Associate Professor of Business Administration.

Mueller, Gert H. (1973), Ph.D., University of Munich; Professor of Sociology.

Mueller, Hugo J. (1959), Ph.D., University of Hamburg; Professor Emeritus of Language and Foreign Studies.

Muller, Ronald E. (1970), B.S., M.A., University of Munich; Ph.D., The American University; Professor of Economics.

Muni, Sukh Deo (1986), B.Sc., M.A., Ph.D., University of Rajasthan, Jaipur; Visiting Research Professor of International Service.

Murphy, Marcia Gaughan (1983), A.B., Smith College; J.D., Notre Dame Law School; Professor of Law.

Murphy, Terence R. (1968), B.A., University of Chicago; M.A., Roosevelt University; Ph.D., Northwestern University; Assistant Professor of History.

Mussell, Kay J. (1974), B.A., M.A., Ph.D., University of Iowa; Professor of Literature.

Myren, Richard A. (1976), B.S., University of Wisconsin; LL.B., Harvard University; Professor Emeritus of Justice.

Nadell, Pamela S. (1982), B.A., Douglass College, Rutgers, The State University of New Jersey; M.A., Ph.D., The Ohio State University; Assistant Professor of History.

Nash, Philleo (1973), A.B., University of Wisconsin; Ph.D., University of Chicago; Professor Emeritus of Anthropology.

Neiswender, Laverne B. (1968), B.S.N., University of Kansas; M.S.N., University of Maryland; Associate Professor of Nursing.

Newman, Ralph A. (1956), A.B., LL.B., Harvard University; Professor Emeritus of Law.

Noel, Henry M. (1963), Dr. d'Université, Université de Montpellier; M.A., University of Pennsylvania; Associate Professor Emeritus of Language and Foreign Studies.

Norton, Bruce F. (1966), A.B., State University of New York at Albany; M.A., The George Washington University; Ph.D., Syracuse University; Associate Professor of Government and Public Administration.

Nyce, Lawrence G., Jr. (1963), B.S., Lock Haven State College; M.A., University of Maryland; Associate Professor of Physical Education.

O'Connor, Rita (1983), B.A., Fordham University; M.A., University of Michigan; Ph.D., Johns Hopkins University; Assistant Professor of Government and Public Administration.

Oktay, Eleni K. (1961), B.A., The George Washington University; M.A., The American University; Assistant Professor Emerita of Language and Foreign Studies.

Olpin, Owen (1987), B.S., Brigham Young University; J.D., Columbia University; Visiting Professor of Law.

Olson, William Clinton (1979), A.B., University of Denver; M.A., Ph.D., Yale University; Professor of International Service.

Onuf, Nicholas G. (1970), B.A., Ph.D., Johns Hopkins University; M.A., Yale University; Professor of International Service.

Oppenheim, Janet (1975), B.A., Bryn Mawr College; M.A., Ph.D., Columbia University; Professor of History.

Orwant, Jack E. (1970), B.A., M.A., University of Michigan; M.S., The American University; Ph.D., University of Iowa; Professor of Communication.

Ottaway, Marina (1986), B.A., New York University; Ph.D., Columbia University; Associate Professor of International Service.

Owens, James (1961), B.A., Loyola University; M.A., University of Chicago; Ph.D., Georgetown University; Professor of Business Administration.

Oxman, Mark (1976), Certificate of Merit, City and Guilds of London Art School; Associate Professor of Art.

Owrang, M. Mehdi (1986), B.A., College of Economics and Social Science; M.S., Ph.D., University of Oklahoma; Assistant Professor of Mathematics, Statistics, and Computer Science.

Pace, Stephen (1975), Professor Emeritus of Art.

Parker, Scott R. (1974), A.B., M.A., Ph.D., Columbia University; Associate Professor of Psychology and Mathematics, Statistics, and Computer Science.

Patton, Mary M. (1943), B.A., Kalamazoo College; M.A., Columbia University; Professor Emeritus of Literature.

Paul, Joel Richard (1986), B.A., Amherst College; J.D., Harvard Law School; M.A., Fletcher School of Law and Diplomacy; Assistant Professor of Law.

Payne, Deborah C., (1985), B.A., Loyola University; M.A., Ph.D., C.Phil., University of California at Los Angeles; Assistant Professor of Literature.

Peak, Elizabeth Jayne (1986), B.A., University of California, Santa Barbara; M.F.A., Yale University; Assistant Professor of Art.

Penay, Luciano (1965), B.A., M.A., The American University; Professor of Art.

Perlmutter, Amos (1972), B.A., M.A., Ph.D., University of California at Berkeley; Professor of Government and Public Administration.

Perry, Anne C. (1983), B.A., Randolph-Macon Woman's College; M.A., Duke University; M.I.M., American Graduate School of International Management; Ph.D., Washington University; Assistant Professor of Business Administration.

Peters, William H. (1983), A.B., William Jewell College; M.S., Columbia University; M.B.A., Ph.D., University of Michigan; Professor and Dean of the Kogod College of Business Administration.

Petersen, Karen (1970), B.A., University of California at Berkeley; M.A., Johns Hopkins University; Ph.D., Columbia University; Professor of Sociology.

Petrowitz, Harold C. (1964), B.S., University of Michigan; J.D., LL.M., Columbia University; Professor of Law.

Photias, Nikos G. (1955), B.A., Athens University; M.B.A., Handelschochschule, Koenigsberg; M.P.S., Ph.D., Albertus University; Professor Emeritus of Business Administration.

Pike, Andrew D. (1984), B.A., Swarthmore College; J.D., University of Pennsylvania; Associate Professor of Law.

Pineda, Hugo (1959), B.A., Ph.M., Ph.D., The George Washington University; M.A., The American University; Associate Professor of Language and Foreign Studies.

Piotrow, F. Jackson (1963), B.A., Haverford College; B.A., M.A., D.Phil, Oxford University; Professor of International Service.

Popper, Andrew F. (1978), B.A., Baldwin Wallace College; J.D., DePaul University; LL.M., The George Washington University; Professor of Law.

Porter, Gareth (1985), B.A., University of Illinois; M.A., University of Chicago; Ph.D., Cornell University; Assistant Professor of International service.

Prager, Claire (1986), B.A., University of Maryland; M.S., New York University; Instructor of Business Administration.

Preston, Nathaniel S. (1961), A.B., Boston University; M.A., University of Pennsylvania; Ph.D., Princeton University; University Professor Emeritus of Government and Public Administration.

Prosterman, Leslie M. (1985), B.A., Syracuse University; M.A., Ph.D., University of Pennsylvania; Research Assistant Professor of Anthropology.

Quinn, Grace S. (1956), B.A., B.S., M.A., Ph.D., Ohio State University; Professor Emerita of Mathematics, Statistics, and Computer Science.

Quinn, Jarus Kevin (1986), B.A., University of Maryland; Instructor of Economics.

Radner, Joan N. (1971), A.B., Radcliffe College; M.A., Ph.D., Harvard University; Associate Professor of Literature.*

Ralph, Ruth S. (1975), B.A., Bethany College; M.A., Long Island University; Ph.D., University of Maryland; Associate Professor of Education.

Randall, Darrell D. (1962), B.A., Nebraska Wesleyan University; M.A., University of Nebraska; M.A., Columbia University; Ph.D., University of Chicago; Professor Emeritus of International Service.

Randall, Mildred N. (1966), B.S., M.S., Case Western Reserve University; Associate Professor Emerita of Nursing.

Ravenal, Carol M. (1970), B.A., Brooklyn College; M.F.A., Ohio University; Ph.D., Harvard University; Associate Professor of Art.

Reiman, Jeffrey H. (1970), B.A., Queens College; M.A., Ph.D., Pennsylvania State University; Professor of Justice and Philosophy.

Reimann, Barbara J. (1967), B.S., Temple University; M.A., University of Maryland; Associate Professor of Physical Education.

Reiss, Howard R. (1969), B.A.E., M.A.E., Polytechnic Institute of Brooklyn; Ph.D., University of Maryland; Professor of Physics.

Rice, Frederick A.H. (1963), B.A., M.S., Dalhousie University; Ph.D., Ohio State University; Professor Emeritus of Chemistry.

Rice, Paul R. (1974), B.B.A., Marshall University; J.D., West Virginia University; LL.M., Yale University; Professor of Law.

Richardson, John M. (1975), A.B., Dartmouth College; Ph.D., University of Minnesota; Professor of International Service.

Richelson, Jeffrey T. (1982), B.A., City College of the City University of New York; M.A., Ph.D., University of Rochester; Assistant Professor of Government and Public Administration.

Richman, Michael (1986), B.A., Bowdoin College; M.A., George Washington University; Ph.D., University of Delaware; Research Associate Professor of Art.

Riley, Anne C. (1981), B.A., Nazareth College; M.S., Syracuse University; C.P.A.; Assistant Professor of Business Administration.

Riley, Anthony L. (1976), B.A., University of North Carolina; Ph.D., University of Washington; Professor of Psychology.

Ringold, Debra J. (1985), B.A., Texas Technical University; M.B.A., Southern Illinois University; Assistant Professor of Business Administration.

Rioch, Margaret J. (1971), B.A., Wellesley College; M.A., Washington University; Ph.D., Bryn Mawr University; Professor Emerita of Psychology.

Robbins, Ira P. (1979), A.B., University of Pennsylvania; J.D., Harvard University; Professor of Law and Justice.

Roberts, James Curtis (1986), B.A., The Ohio University; M.A., The American University; Instructor of Technology and Administration.

Roberts, Jeanne A. (1960), A.B., Agnes Scott College; M.A., University of Pennsylvania; Ph.D., University of Virginia; Professor of Literature.

Robinson, Ann (1986), B.A., University of North Carolina; M.A., The American University; Instructor of Business Administration.

Robinson, Edgar S. (1953), B.A., Amherst College; M.A., Ph.D., Columbia University; Professor Emeritus of Government and Public Administration.

Rock, Stephen (1976), A.B., Columbia University; Ph.D., University of California at Berkeley; Research Associate Professor of Physics.

Rodier, David F.T. (1967), B.A., Drury College; Ph.D., Vanderbilt University; Associate Professor of Philosophy and Religion.

Rogers, Joseph R., III (1965), B.S., University of Massachusetts; M.Ed., The American University; Assistant Professor of Physical Education.

Rooney, John J. (1985), B.A., University of Pittsburgh; M.B.A., Syracuse University; Associate Professor of Technology and Administration

Rosché, Theodore R. (1960), B.A., Park College; B.D., Union Theological Seminary; Ph.D., Columbia University; Professor of Philosophy and Religion.

Roscher, Nina M. (1974), B.S., University of Delaware; Ph.D., Purdue University; Professor of Chemistry.

Rosenberg, Marvin I. (1965), B.S., U.S. Naval Academy; B.S., Naval Postgraduate School; M.S., Purdue University; Associate Professor Emeritus of Technology and Administration.

Rosenblatt, Harry M. (1974), B.S., M.A., Ph.D., The George Washington University; Professor Emeritus of Mathematics, Statistics, and Computer Science.

Ross, Bernard H. (1967), B.S., University of Pennsylvania; M.A., Ph.D., New York University; Professor of Government and Public Administration.

Rowe, William D. (1979), B.S., Wesleyan University; M.S., University of Pittsburgh; M.B.S., State University of New York; Ph.D., The American University; Research Professor of Technology and Administration.

Rubenstein, Roberta (1969), B.A., University of Colorado; Ph.D., University of London; Professor of Literature.

Rubin, Seymour J. (1972), A.B., University of Michigan; LL.B., LL.M., Harvard University; Professor Emeritus of Law.

Saari, David J. (1973), B.A., J.D., University of Minnesota; Professor of Justice.

Sadker, David G. (1973), B.A., City College of New York; M.A.T., Harvard University; Ed.D., University of Massachusetts; Professor of Education.

Sadker, Myra (1973), B.A., Boston University; M.A.T., Harvard University; Ed.D., University of Massachusetts; Professor of Education.

Sager, Martha C. (1955), B.S., M.S., University of Maryland; Ph.D., The Catholic University of America; Professor of Biology.*

Said, Abdul A. (1957), B.S., M.A., Ph.D., The American University; Professor of International Service.

Sakagami, Takayuki (1987), B.A., Keio University, Faculty of Letters; M.A., Ph.D., Graduate School of Human Relations; Research Assistant Professor of Psychology.

Salazar, Oscar (1963), B.A., Columbia Union College; M.A., The George Washington University; Associate Professor of Language and Foreign Studies.

Sampson, Michael P. (1983), B.S., M.B.A., J.D., Cornell University; LL.M., Georgetown University; C.P.A.; Professor of Business Administration.

Sapieyevski, Jerzy (1975), Diploma, State Advanced School of Music, Gdansk; M.M., The Catholic University of America; Associate Professor of Performing Arts.

Sargentich, Thomas O. (1983), B.A., Harvard College; M.Phil., Oxford University; J.D., Harvard College; Professor of Law.

Sawers, Larry B. (1969), B.A., Duke University; M.A., Ph.D., University of Michigan; Professor of Economics.

Scarborough, Grace (1986), B.A., M.A., Ph.D., University of Rochester; Assistant Professor of International Service.

Schilit, Howard M. (1978), B.A., Queens College; M.S., State University of New York at Binghamton; M.B.A., D.B.A., University of Maryland; C.P.A.; Associate Professor of Business Administration.

Schiller, Bradley R. (1980), B.A., University of California at Berkeley; Ph.D., Harvard University; Professor of Government and Public Administration.

Schot, Steven H. (1957), B.S., The American University; M.A., Ph.D., University of Maryland; Professor of Mathematics, Statistics, and Computer Science.

Schuetze, George C. (1963), B.M., University of Wisconsin; Ph.D., New York University; Professor of Performing Arts.

Schwartz, Anthony (1986), B. Chem., M. Chem., Ph.D., Cornell University; Research Professor of Chemistry.

Schwartz, Herman (1982), A.B. Harvard College; LL.B., Harvard Law School; Professor of Law.

Schwartz, Lee (1985), B.A., Bucknell University; M.A., M.Phil., Columbia University; Assistant Professor of International Service.

Scott, John C. (1957), B.S., Springfield College; A.M., Ph.D., University of Chicago; Professor of Sociology.

Scribner, Phillip H. (1970), B.A., University of Colorado; Ph.D., Johns Hopkins University; Associate Professor of Philosophy and Religion.

Segal, Morley (1967), B.A., M.A., San Francisco State University; Ph.D., Claremont Graduate School; Professor of Government and Public Administration.

Segnan, Romeo A. (1967), B.S., M.S., University of Turin; Ph.D., Carnegie Institute of Technology; Professor of Physics.

Seigle, Jack C. (1963), B.A., University of Michigan; M.A., University of Montana; Associate Professor of Business Administration.

Seldin, Maury (1965), B.S., M.B.A., University of California at Los Angeles; D.B.A., Indiana University; Professor of Business Administration.

Selman, Victor (1976), B.A., New York University; M.S., Stevens Institute of Technology; D.Sc., The George Washington University; Associate Professor of Business Administration.

Shaffer, Ava (1984), B.S., B.S.N., Cornell University; M.N., Emory University; Assistant Professor of Nursing.

Sharp, Samuel L. (1951), LL.M., J.D., Warsaw University; University Professor Emeritus of International Service.

Shelley, Louise I. (1977), B.A., Cornell University; M.A., Ph.D., University of Pennsylvania; Professor of Justice.

Shen, Paul (1977), B.Sc., Ph.D., University of London; M.Sc., Birmingham University; M.B.A., York University; C.P.A.; Associate Professor of Business Administration.

Sheridan, Jerome (1986), B.A., University of Notre Dame; Instructor of Economics.

Siegel, Mary (1977), A.B., Vassar College; J.D., Yale University; Professor of Law.

Siegenthaler, Jurg K. (1974), M.A., Ph.D., University of Berne; Professor of Sociology.

Silberberg, Alan M. (1971), B.A., Yale University; M.A., Ph.D., University of Pennsylvania; Professor of Psychology.

Simic, Michael G. (1982), Diploma, University of Belgrade; Ph.D., University of Newcastle, England; Research Professor of Chemistry.

Simon, Rita James (1983), B.A., University of Wisconsin; Ph.D., University of Chicago; Professor of Law and Justice and Dean of the School of Justice.

Simonds, Roger T. (1958), B.A., M.A., Ph.D., Yale University; Professor of Philosophy and Religion.

Sklarew, Myra W. (1977), B.S., Tufts University; M.A., Johns Hopkins University; Associate Professor of Literature.

Slotnick, Burton M. (1974), A.B., Ph.D., University of Illinois; Professor of Psychology.

Smalls, O'Neal (1979), B.S., Tuskegee Institute; J.D., Harvard University; LL.M., Georgetown University; Professor of Law.

Smith, Edward C. (1969), Assistant Professor of Education.

Smith, Gordon H. (1947), B.M., Wooster College; M.A., Mills College; Ph.D., University of Iowa; Professor Emeritus of Performing Arts.

Smith, John H. (1947), B.A., Iowa State Teachers College; M.B.A., Ph.D., University of Chicago; Professor Emeritus of Mathematics, Statistics, and Computer Science.

Smith, Sally L. (1976), A.B., Bennington College; M.A., New York University; Professor of Education.

Smolka, Richard G. (1962), B.A., M.A., Ph.D., The American University; Professor of Government and Public Administration.

Smoodin, Eric (1985), B.A., M.A., Ph.D., University of California at Los Angeles; Assistant Professor of Literature.

Sood, James H. (1975), B.S., College of William and Mary; B.S., University of Illinois; M.B.A., D.B.A., The George Washington University; Professor of Business Administration.*

Spragens, Janet R. (1973), B.A., Wellesley College; M.A., Northwestern University; J.D., The George Washington University; Professor of Law.

Springer, Robert M., Jr. (1974), B.S., West Point; M.A., Stanford University; D.B.A., The George Washington University; Associate Professor of Business Administration.

Sprinzak, Ehud (1986), B.A., M.A., Hebrew University of Jerusalem; Ph.D., Yale University; Research Professor of Justice.

Stahr, William E. (1963), B.A., M.A., University of Maryland; Ph.D., The George Washington University; Associate Professor of Literature.

Steinbruckner, Bruno F. (1965), Certificate, Ph.D., University of Innsbruck; Professor of Language and Foreign Studies.

Stevenson, Gail (1985), B.A., Middlebury College; M.A., University of Oslo; Instructor of Economics.

Story, Charlotte (1985), B.F.A., University of Houston; M.F.A. equivalent, Basle School of Design; Assistant Professor of Art.

Stout, Richard T. (1980), B.A., DePauw University; M.S., Columbia University; Professor of Communication.

Stout, Russell, Jr. (1980), A.B., M.A., Ph.D., University of California at Berkeley; Associate Professor of Government and Public Administration.

Streitmatter, Rodger (1979), B.A., Southern Illinois University; M.S., Radford College; Associate Professor of Communication.

Striner, Herbert E. (1975), B.A., M.A., State University, Rutgers; Ph.D., Syracuse University; University Professor of Business Administration.

Struelens, Michel (1971), B.A., St. Pierre College; M.A., St. Ignace University; Ph.D., The American University; Professor of International Service.

Stucker, Darren M. (1986), B.S., M.S., Ph.D., University of Wisconsin; Assistant Professor of Communication.

Subramanian, N. (1986), B. Tech, Indian Institute of Technology; M.B.A., University of Miami: C.P.A., Institute of Chartered Financial Analysts; Ph.D., University of Maryland; Assistant Professor of Business Administration.

Suhrke, Astri (1972), M.A., Ph.D., University of Denver; Professor of International Service.

Summerford, Ben L. (1950), B.A., M.A., The American University; Professor of Art.

Sutton, Ronald E. (1973), B.A., Swarthmore College; Master of Divinity, M.S.T., Drew University; Professor of Communication.

Swasy, John L. (1987), B.S., M.B.A., The Pennsylvania State University; Ph.D., University of California, Los Angeles; Assistant Professor of Business Administration.

Tamagna, Frank M. (1958), LL.D., Pavia, Italy; Ph.D., Yale University; Professor Emeritus of Economics.

Taylor, Alan R. (1964), B.A., Columbia University; M.S., Ph.D., Georgetown University; Professor of International Service.

Taylor, Henry S. (1971), B.A., University of Virginia; M.A., Hollins College; Professor of Literature.

Thanh, Pham Chi (1976), B.Com., Ph.D., University of New South Wales; Professor of Economics.

Thompson, Elaine Vera (1986), B.Ec., Ph.D., University of Sydney; Visiting Research Professor of Government and Public Administration.

Thurber, James A. (1974), B.S., University of Oregon; M.A., Ph.D., Indiana University; Associate Professor of Government and Public Administration.

Tinker, Irene (1985), A.B., Radcliffe College; Ph.D., London School of Economics and Political Science; Visiting Professor of International Service.

Toppins, Sarah E. (1986), B.S., University of Texas; M.A., University of Alabama; Assistant Professor of Communication.

Toulmin, Llewellyn (1986), B.A., Eckerd College; M.P.A., Syracuse University; Ph.D., The American University; Assistant Professor of Government and Public Administration.

Trebach, Arnold S. (1972), J.D., LL.B., New England School of Law; M.A., Ph.D., Princeton University; Professor of Justice.

Tsetsekos, George P. (1984), Diploma, National Technical University; M.B.A., Wright State University; Ph.D., University of Tennessee; Assistant Professor of Business Administration.

Turaj, Frank (1965), B.A., M.A., University of Connecticut; Ph.D., Brown University; Professor of Literature.

Turak, Theodore (1966), B.A., M.A., Western Reserve University; Ph.D., University of Michigan; Professor of Art.

Turbay Ayala, Julio César (1986), Ph.D., University of Cauza; Visiting Research Professor, Simon Bolivar Distinguished Lecturer in Inter-American Relations.

Tyson, Brady B. (1959), B.A., Rice University; B.D., Southern Methodist University; Ph.D., The American University; Professor of International Service.

Ungar, Sanford J. (1986), A.B., Harvard College; M.Sc., The London School of Economics and Political Science; Professor and Dean, School of Communications.*

Van der Slice, Austin (1946), B.A., M.A., University of Kansas; Ph.D., University of Pennsylvania; Professor Emeritus of Sociology.

Vaughn, Robert G. (1972), B.A., J.D., University of Oklahoma; LL.M., Harvard University; Professor of Law.

Viano, Emilio C. (1970), B.A., Gregoriana University; M.A., University of Notre Dame; Ph.D., New York University; Professor of Justice.

Vilakazi, Absolom L. (1965), B.A., Ph.D., University of Natal; M.A., Hartford Seminary Foundation; M.A., Trinity College; Professor Emeritus of International Service and Anthropology.

Von Lubitz, Dag K.J.E. (1986), B.Sc., Ph.D./M.D.(Sc), University of Copenhagen; Research Associate Professor of Biology.

Vrenios, Elizabeth Ann (1967), B.M., University of the Pacific; M.M., Northwestern University; Professor of Performing Arts.

Wachtel, Howard M. (1969), B.S., Temple University; M.A., University of Connecticut; Ph.D., University of Michigan; Professor of Economics.

Wadsworth, Lawrence W. (1957), B.S., Centenary College; M.A., Tulane University; Ph.D., The American University; Grazier Memorial Professor of International Service.

Walker, Millidge P. (1960), B.A., Williams College; M.A., Ph.D., University of California at Berkeley; Professor of International Service and Government and Public Administration.

Walsh, Rosemary (1984), B.A., M.F.A., The George Washington University; Assistant Professor of Performing Arts.

Warren-Boulton, Frederick R. (1983), B.A., Yale University; M.P.A., Ph.D., Princeton University; Research Associate Professor of Psychology.

Washington, Valora (1986), B.A., Michigan State University; Ph.D., Indiana University; Associate Professor of Education and Associate Dean of the College of Arts and Sciences.

Wasil, Edward A., Jr. (1985), B.S., Fairfield University; M.B.A., Ph.D., University of Maryland; Assistant Professor of Business Administration.

Waterhouse, Richard V. (1963), B.A., M.A., Oxford University; Ph.D., The Catholic University of America; Professor Emeritus of Physics.

Waters, Paul F. (1965), B.S., University of Scranton; Ph.D., Rutgers State University; Professor of Chemistry.

Waterston, Albert (1970), B.A., New York University; M.A., Columbia University; Professor Emeritus of Economics.

Weaver, Gary R. (1968), B.A., M.A., Ph.D., The American University; Professor of International Service.

Weaver, James H. (1963), B.S.B.A., University of Arkansas; Ph.D., University of Oklahoma; Professor of Economics.

Wechsler, Burton D. (1979), B.A., University of Michigan; J.D., Harvard University; Professor of Law.

Weeks, John (1976), A.B., University of Texas; M.A., Ph.D., University of Michigan; Professor of Economics.

Wegner, Alicja (1986), M.A., University of Lodz; Ph.D., Adam Mickiewicz University, Poznan; Assistant Professor of Language and Foreign Studies.

Weiner, Ronald I. (1972), B.A., University of Maryland; M.S.W., Howard University; D.S.W., University of Maryland; Professor of Justice.

Weiss, Stanley J. (1968), B.A., City College of New York; M.A., Ph.D., Ohio State University; Professor of Psychology.

Weissbrod, Carol S. (1973), B.S., Tufts University; M.A., Ph.D., Northwestern University; Associate Professor of Psychology.*

Wells, Leroy (1982), A.B., Utica College, Syracuse University; M.A., M.Phil., Ph.D., Yale University; Assistant Professor of Government and Public Administration.

Welsh, Barnard T. (1971), B.A., Duke University; LL.B., University of Maryland; LL.M., The George Washington University; Professor Emeritus of Law.

Welt, Isaac D. (1964), B.Sc., M.Sc., McGill University; Ph.D., Yale University; Professor of Technology and Administration.

White, Charles S.J. (1971), B.A., University of Wisconsin; M.A., University of the Americas; M.A., Ph.D., University of Chicago; Professor of Philosophy and Religion.*

White, John A. (1966), B.A., Oberlin College; M.S., Ph.D., Yale University; Professor of Physics.

Whitley, Sterling D. (1966), B.S., Tennessee Technical University; B.D., Vanderbilt University; M.Ed., Ed.D., Auburn University; Professor Emeritus of Business Administration.

Wiegand, R. Bruce (1986), B.S., Slippery Rock University; M.S., Dusquesne University; Ph.D., Vanderbilt University; Assistant Professor of Justice.

Wien, Walter (1986), B.A., City College of New York; M.S., University of Sofia; Assistant Professor of International Service.

Wilkowski, Jean M. (1986), B.A., St. Mary of the Woods College; M.A., University of Wisconsin; Visiting Research Professor of International Service.

Williams, Brett (1976), B.A., Tufts University; Ph.D., University of Illinois; Associate Professor of Anthropology (American Studies).*

Williams, Joan C. (1982), B.A., Yale University; J.D., Harvard Law School; M.C.P., Massachusetts Institute of Technology; Associate Professor of Law.

Williamson, Donald T. (1985), B.A., Hamilton College; M.B.A., Cornell University; J.D., Cornell Law School; L.L.M., Georgetown University; Assistant Professor of Business Administration.

Willoughby, John A. (1979), B.A., University of Michigan; B.A., Cambridge University; Ph.D., University of California at Berkeley; Associate Professor of Economics.

Wilson, Howard (1963), B.E.E., The George Washington University; M.A., University of Maryland; Assistant Professor of Mathematics, Statistics, and Computer Science.

Wilson, Larman C. (1968), B.A., Nebraska State University; M.A., Ph.D., University of Maryland; Professor of International Service.

Wisman, Jon D. (1971), B.A., University of Maryland; Diplôme, University of Strasbourg; Ph.D., The American University; Associate Professor of Economics.

Wisman, Josette A. (1973), Licence ès Lettres, University of Strasbourg; M.A., The American University; Ph.D., The Catholic University of America; Associate Professor of Language and Foreign Studies.

Wolfson, Lewis W. (1969), B.A., Dartmouth College; M.S., Columbia University; M.A., Harvard University; Professor of Communication.

Wrathall, C. Richard (1974), B.S., M.S., Ph.D., University of Utah; Associate Professor of Biology.

Wu, Angela (1980), B.S., Villanova University; M.S., Cornell University; Ph.D., University of Maryland; Professor of Mathematics, Statistics, and Computer Science.

Wythe, Zoe (1948), B.A., M.A., The George Washington University; Associate Professor Emerita of Language and Foreign Studies.

Yamauchi, Joanne S. (1970), B.A., Goucher College; M.A., Columbia University; Ph.D., Northwestern University; Professor of Communication.

Yarnall, Shirley (1959), B.A., Wilson College; Associate Professor Emerita of Literature.

Yates, Brian T. (1976), B.A., University of California at San Diego; Ph.D., Stanford University; Associate Professor of Psychology.

Young, John D. (1979), A.B., Colgate University; M.S., Syracuse University; Ph.D., The American University; Professor of Technology and Administration and of Government and Public Administration.

Young, Louise M. (1958), B.A., Ohio Wesleyan University; M.A., Ph.D., Pennsylvania State University; Professor Emerita of Literature.

Zapatka, Francis E. (1959), A.B., Fordham University; M.A., Trinity College; Ph.D., The Catholic University of America; Associate Professor of Literature.

Zauderer, Donald G. (1970), B.S., Ohio State University; M.A., Kent State University; Ph.D., Indiana University; Associate Professor of Government and Public Administration.

Zelle, Ann (1986), B.A., Mount Holyoke College; M.A., Pius XII Institute, Italy; Assistant Professor of Communication.

Zimmerman, Marc A. (1986), B.S., University of Massachusetts; M.S., University of Oregon; Ph.D., University of Illinois; Instructor of Justice.

Zoubir, Yahia H. (1985), B.A., University of Algiers; M.A., Ph.D., The American University; Assistant Professor of International Service.

Professional Librarians with Full-Time Faculty Status

Arnold, George D. (1971), B.A., Seminary of St. Pius X; M.L.S., University of Maryland; Librarian.

Bartley, Barbara (1984), B.A., Dates College; M.L.S., State University of New York at Albany; Assistant Librarian.

Blaes, Evelyn B. (1980), Scottish Leaving Certificate at Higher Level, Stromness Academy; M.A., Edinburgh University; M.L.S., Simmons College; Associate Librarian.

Chase, Linda S. (1985), A.B., Oberlin College; M.S.I.L.S., Columbia University; Assistant Librarian.

Covell, Harvey K. (1984), B.A., J.D., The American University; Assistant Law Librarian.

Dennis, Donald D. (1971), A.B., Bowdoin College; B.A., M.L.S., University of California at Berkeley; University Librarian.

Depoy, Helen (1985), B.A., The American University; M.L.S., University of Maryland; Assistant Librarian.

Flug, Janice L. (1975), B.A., Hamline University; M.L.S., University of Maryland; M.P.A., The American University; Librarian.

Fritz, Theresa (1985), B.A., Wells College; M.L.S.., Syracuse University; Assistant Librarian.

Hanes, Rosemary C. (1985), B.G.S., University of Michigan; M.L.S., University of Maryland; Assistant Librarian.

Heaberlin, John C. (1983), B.A., University of Kentucky; M.L.S., University of Washington; Assistant Law Librarian.

Heintze, James R. (1969), B.S., Loyola College; M.A., The American University; M.L.S., University of Maryland; Librarian.

Kaufman, Mary M. (1980), B.A., University of Wisconsin at Madison; M.L.S., Emory University; M.A., The American University; Assistant Librarian.

Kehoe, Patrick E. (1973), B.C.S., Seattle University; J.D., M.L.Lib., University of Washington; Law Librarian.

McCann, Gary Lee (1979), B.A., California State University at Fullerton; J.D., Willamette University; M.L.S., University of Texas; Associate Law Librarian.

Milam, Margaret Mitchell (1971), B.A., M.L.S., University of Maryland; J.D., The American University; Law Librarian.

Mintz, Mary M. (1984), B.A., Davidson College; M.A., North Carolina State University; M.S.L.S., University of North Carolina at Chapel Hill; Assistant Librarian.

Neilson, Susan H. (1968), B.A., Keuka College; M.S.L.S., Drexel Institute of Technology; Associate Librarian.

Reynolds, Sally-Jo (1965), B.A., University of Michigan; M.S.L.S., Columbia University; Librarian.

Ross, William Edwin (1980), B.A., East Carolina University; M.L.S., M.A., University of Maryland; Associate Librarian.

Sandique-Owens, Amelia A. (1980), B.S., M.A., University of Santo Tomás (Manila); M.S., Georgetown University; M.S.L.S., The Catholic University of America; Associate Law Librarian.

Schmidt, Herbert K. (1968), B.A., Weber State College; M.A.L.S., University of Michigan; Librarian.

Vogelsong, Diana (1975), B.A., Kalamazoo College; M.L.S., University of Maryland; M.A., The American University; Librarian.

Zich, Joanne A. (1983), A.B., Washington University; M.S., Columbia University; Associate Law Librarian. 0025

1986–1987 Adjunct Faculty

The faculty list below covers the 1986–1987 academic year only.

Abell, Anthony (1986), B.A., Boston College; B.S., Boston University; M.B.A., The American University; Lecturer of Business.

Abu-Fadil, Magda (1985), B.A., M.A., The American University; Lecturer of Communication.

Acevedo, Domingo (1985), Abogado, Universidad Buenos Aires; M.C.L., Georgetown Law Center; Adjunct Professor of Law.

Adams, David G. (1986), B.A., University of Southwestern Louisiana; J.D., New York University School of Law; Professorial Lecturer of Law.

Adams, Judith-Anne (1970), B.S.L., Georgetown University; Lecturer of Language and Foreign Studies.

Adler, Robert S. (1984), A.B., University of Pennsylvania; J.D., University of Michigan Law School; Lecturer of Law.

Adrien, Marie-Helene (1986), B.S., M.A., McGill University; Lecturer of Language and Foreign Studies.

Ahmadi, Massoud (1985), B.A., National University of Iran; M.A., Ph.D., The American University; Professorial Lecturer of International Service.

Ahmadi, Pari Suzanne (1985), B.A., Connecticut College; M.A., Middlebury College; Lecturer of Language and Foreign Studies.

Akgonenc, Oya (1980), B.A., Teachers College (Turkey); LL.B., Ankara University; M.A., Ph.D., The American University; Professorial Lecturer of International Service.

Alaghband, Hassan (1985), B.S., M.B.A., Boston University; Lecturer of Business Administration.

Alessio, Helaine Mary (1986), B.S., Rutgers University; M.S., Ithaca College; Ph.D., University of Maryland; Professorial Lecturer of Physical Education.

Alexander, William Henry (1985), B.A., Fisk University; M.A., Ph.D., Stanford University; Professorial Lecturer of History.

Allen, Catherine (1984), B.S., University of Missouri; M.S., University of Maryland; Professorial Lecturer of Business Administration.

Allen, Robert G. (1980), B.S., Fordham University; J.D., The American University; Adjunct Professor of Communication.

Allen, Ruth Hamilton (1984), A.B., Douglass College; M.F.S., M.S., M.Phil., Ph.D., Yale University; Professorial Lecturer of Biology.

Alonso, Jose (1986), Licenciado, University of Oriente; Lecturer of Mathematics, Statistics, and Computer Science.

Alpern, Anita (1979), B.A., University of Wisconsin; Distinguished Adjunct Professor in Residence of Government and Public Administration.

Alpher, Rose (1972), B.A., Hunter College; M.S.W., Columbia University; Professorial Lecturer of Education.

Alter, Harvey (1974), B.S., Queens College; M.S., Ph.D., University of Cincinatti; Adjunct Professor of Technology and Administration.

Ammu, Satyan N. (1985), B.S., M.S., University of Bombay; M.S., University of Massachusetts; Lecturer of Technology and Administration.

Anderson, David L. (1985), B.S., Towson State University; J.D., University of Maryland; Lecturer of Law.

Anderson, Michele Jean (1982), B.A., Northwestern University; J.D., Georgetown University; Professorial Lecturer of Law.

Andrieu, Pedro E. (1983), Bachelor, Universidad Nacional de la Platta; Diploma, ISEV (Naples, Italy); M.A., M.A., The American University; Docteur en Economic, University of Paris (Sorbonne); Docteur d'Etat, University of Paris (Orsay); Professorial Lecturer of Economics.

Annis, John P. (1986), B.A., Gettysburg College; M.B.A., Pace University; Professorial Lecturer Business Administration.

Anthony-Buckman, Jane (1985), B.F.A., Marymount College of Virginia; M.F.A., The American University; Lecturer of Art.

Arnaudet, Martin (1976), B.A., University of Notre Dame; M.S., Ph.D., Georgetown University; Professorial Lecturer of Language and Foreign Studies.

Arnold, Michael R. (1984), A.B., University of California at Santa Cruz; M.A., Ph.D., University of California at Berkeley; Adjunct Professor of Business Administration.

Ashley, Jane (1985), B.A., University of Missouri; Professorial Lecturer of Communication.

Atkins, G. Pope (1970), B.A., University of Texas; M.A., Ph.D., The American University; Adjunct Professor of International Service.

Auffret, Jean-Pierre (1984), B.S., Duke University; M.B.A., University of Virginia; Lecturer of Technology and Administration.

Austern, David T. (1980), B.A., University of Pennsylvania; LL.B., Yale University; Professorial Lecturer of Law.

Avila, Hector (1981), M.A., University of Chicago; Professorial Lecturer of Economics.

Badry, Fatima (1984), Licence ès Lettres, Université Mohamed V; M.A., San Jose State University; Ph.D., University of California at Berkeley; Professorial Lecturer of Language and Foreign Studies.

Bakhtiari, Bahman (1986), University of Denver; M.A., University of Virginia; Professorial Lecturer of International Service.

Band, Joseph (1975), B.S., M.A., J.D., The American University; Professorial Lecturer of Business Administration.

Barber, Elizabeth (1985), B.A., University of South Florida; M.A., The American University; Lecturer of International Service.

Barkley, Bruce T. (1983), B.A., Wittenburg University; M.A., University of Cincinnati; M.P.A., University of Southern California; Professorial Lecturer of Technology and Administration.

Barnes, Bernadine (1986), B.A., University of Illinois; M.A., University of Pittsburgh; Ph.D., University of Virginia; Lecturer of Art.

Barnes, Johnny (1985), B.A., Central State University; J.D., Georgetown University; Professorial Lecturer of Education.

Barrett, Charles A. (1983), B.S., University of Maine; M.B.A., Cornell University; Lecturer of Business Administration.

Barrett, Jerome T. (1985), B.A., College of St. Thomas; M.A., University of Minnesota; Ed.D., The George Washington University; Lecturer of Business Administration.

Barwick, William Allen (1979), B.S., College of William and Mary; M.S., Ph.D., The American University; Adjunct Professor of Physics.

Bassler, John (1985), B.A., Rice University; M.B.A., Stanford University; Ph.D., Carnegie Mellon University; Lecturer of Government and Public Administration.

Bates, Thelma Inez (1984), B.S., University of Maryland; M.S., The Catholic University of America; Lecturer of Nursing.

Battle, Thomas Cornell (1985), B.A., Howard University; M.L.S., University of Maryland; Ph.D., The George Washington University; Professorial Lecturer of Literature.

Baum, Barbara E. (1986), B.A., Goucher College; M.A., Loyola College; Ph.D., The American University; Professorial Lecturer of Psychology.

Bawa, Mahama (1984), B.A., University of Ghana; Lecturer of International Service.

Beach, Richard J. (1978), B.A., University of Maryland; M.Ed., Bowie State College; Lecturer of Justice.

Beam, Randal A. (1985), B.A., University of Nebraska; M.A., Syracuse University; Lecturer of Communication.

Beck, Alan W. (1983), B.A., Kenyon College; M.A., Saint Mary's University; D.O.D., Air Force Institute of Technology; Professorial Lecturer of Business Administration.

Becker, Brandon (1982), B.A., University of Minnesota; J.D., University of San Diego; LL.M., Columbia University; Lecturer of Law.

Becker, Joseph A. (1984), B.A., Western Connecticut State College; M.A., The American University; Professorial Lecturer of Communication.

Benes, Carolina Maria (1986), Computadora Cientifica; Licenciada en Ciencias de la Computacion, University of Buenos Aires; Lecturer of Mathematics, Statistics, and Computer Science.

Benigni, Helen (1985), B.A., M.A., West Virginia University; Lecturer of Literature.

Bennett, James F. (1987), B.A., The Catholic University of America; Master of Urban and Environmental Planning, University of Virginia; Lecturer of Government and Public Administration.

Bennett, Susan (1985), B.A., M.A., Yale University; J.D., Columbia University; Lecturer of Law.

Bennett, Willis (1969), Professorial Lecturer of Performing Arts.

Bentley-Mussen, Joan (1986), B.A., George Mason University; M.A., University of Connecticut; Ph.D., The American University; Professorial Lecturer of Justice.

Berenbaum, Michael (1987), A.B., Queens College; Ph.D., Florida State University; Adjunct Professor of Jewish Studies.

Berens, Michael (1985), B.A., M.A., Ph.D., University of California; Professorial Lecturer of Literature.

Berenson, William M. (1984), A.B., Dartmouth College; M.A., Ph.D., Vanderbilt University; Professorial Lecturer of Law.

Berger, Eric S. (1985), B.A., Haverford College; Lecturer of Mathematics, Statistics, and Computer Science.

Bernet, Susan (1983), B.S., Columbia University; M.S.N., The Catholic University of America; Lecturer of Nursing.

Berney, Ellen Jo (1986), A.A., Montgomery College; B.A., Roosevelt University; M.A., The American University; Lecturer of Language and Foreign Studies.

Bernsen, Sam (1984), B.A., New York State University; LL.B., Brooklyn Law School; Adjunct Professor of Law.

Besharov, Douglas (1986), J.D., LL.M., New York University School of Law; Adjunct Professor of Law.

Beyer, John C. (1982), B.A., University of the Pacific; M.A., M.A.L.D., Ph.D., Tufts University; Adjunct Professor of International Service.

Bezold, Clement (1983), B.S.F.S., Georgetown University; M.A., Ph.D, University of Florida; Professorial Lecturer of Government and Public Administration.

Bierman, Martin I. (1972), A.B., University of Michigan; J.D., Wayne State University; Adjunct Professor of Justice.

Billy, Jay A. (1986), B.S., Ashland College; M.S., University of Delaware; Lecturer of Physical Education.

Bingham, Herman (1981), B.A., University of Arkansas; M.A., Ph.D., University of Michigan; Professorial Lecturer of Literature.

Bingman, Charles F. (1984), B.B.A., M.B.A., University of Wisconsin; Professorial Lecturer of Technology and Administration.

Birdsell, David S. (1985), B.A., M.A., University of Virginia; Lecturer of Government and Public Administration.

Bitler, Doris A. (1986), B.A., Dickinson College; M.A., Hollins College; Lecturer of Psychology.

Bjork, John R. (1985), B.A., Western Michigan University; M.A., The American University; Professorial Lecturer of Technology and Administration.

Blackwell, William S. (1976), B.A., University of Richmond; Professorial Lecturer of Communication.

Blank, Lorraine (1984), B.A., M.A., University of Connecticut; Lecturer of Government and Public Administration.

Blick, Larry N. (1981), B.A., University of Wichita; M.A., Wichita State University; Professorial Lecturer of Government and Public Administration.

Blodgett, Robert J. (1985), B.S., Clarkson College; M.S., Case Western Reserve University; M.A., The George Washington University; Professorial Lecturer of Mathematics, Statistics, and Computer Science.

Blodgett, Steven A. (1981), B.S., M.A., Central Michigan University; Professorial Lecturer of International Service.

Bodolay, Stephen (1983), B.A., University of California at Los Angeles; J.D., Loyola University of Los Angeles; LL.M., Georgetown University; Lecturer of Business Administration.

Boers, Monique (1985), B.S., M.S., University of Untrecht; Professorial Lecturer of Mathematics, Statistics, and Computer Science.

Bogrow, Jan P. (1978), B.S., University of Rhode Island; M.Ed., Lesley College; Lecturer of Education.

Bolduan, Ruth (1984), B.A., M.F.A., The American University; Lecturer of Art.

Boozer, Gordon (1985), B.S., U.S. Air Force Academy; M.B.A., University of California at Los Angeles; M.M.A.S., U.S. Army Command and General Staff College; Lecturer of Business Administration.

Boulay, Sheila (1981), B.S., University of Arizona; M.S., The American University; Lecturer of Biology.

Bowen, Susan (1985), B.B.A., The George Washington University; Lecturer of Technology and Administration

Bower, Robin J. (1985), B.S., Towson State University; M.A., University of Maryland; Lecturer of Communication.

Bowles, Judith (1986), M.F.A., The American University; B.A., Duke University; Lecturer of Literature.

Boyd, Luke (1985), B.S., University of Louisville; Lecturer of Mathematics, Statistics, and Computer Science.

Brackshaw, Susan L. (1986), B.A., University of Massachusetts; J.D., The American University; Lecturer of Law.

Braden, Dennis (1986), B.A., University of Northern Colorado; M.A., University of Colorado, Boulder; Lecturer of Literature.

Branson, Roy (1984), B.A., Atlantic Union College; M.A., University of Chicago; M.A., Andrews University; Ph.D., Harvard University; Adjunct Professor of Nursing.

Brasher, Charles N. (1986), B.A., M.A., University of Colorado at Boulder; Lecturer of Government and Public Administration.

Breitler, Alan L. (1984), B.A., Florida State University; M.A., The George Washington University; Ph.D., The Catholic University of America; Adjunct Professor of Technology and Administration.

Brennan, Joseph P. (1968), A.B., University of Notre Dame; M.B.A., The American University; Adjunct Professor of Business Administration.

Brennan, Kathleen C. (1985), B.S., University of Illinois; M.S., Monmouth College; Lecturer of Mathematics, Statistics, and Computer Science.

Brennan, Louise Gentry (1986), B.A., Middlebury College; M.A., University of Virginia; Lecturer of Literature.

Breul, Jonathan (1980), B.A., M.P.A., Northeastern University; Professorial Lecturer of Business Administration.

Brice, Luther K., Jr. (1986), B.A., Harvard University; M.A., Dartmouth College; Ph.D., Duke University; Adjunct Professor of Chemistry.

Broadus, William (1976), B.S., Eastern Kentucky University; M.S.A., The George Washington University; Adjunct Professor of Business Administration.

Brock, Gregory E. (1985), B.A., University of Mississippi; Lecturer of Communication.

Brooks, Jane (1979), A.B., A.M., Smith College; Lecturer of Literature.

Brosvic, Gary (1985), B.S., John Carrol University; M.A., The American University; Lecturer of Psychology.

Brouard, Scott F. (1985), A.A., Montgomery College; B.A., M.A., The American University; Lecturer of Art.

Brown, Barry (1978), B.S., Pennsylvania State University; M.P.A., The American University; Adjunct Professor of Business Administration.

Brown, Bethany J. (1986), B.A., University of Maryland at Baltimore; M.A., University of Arizona; Lecturer of Literature.

Brown, David C. (1977), B.A., The American University; M.A., M.Phil., Ph.D., Rutgers University; Adjunct Professor of Government and Public Administration.

Brown, Elizabeth (1985), B.A., Rutgers Unversity; M.S., Northwestern University; Lecturer of Communication.

Brummet, Deliliah (1983), B.S.F.S., Georgetown University; J.D., Chicago–Kent College of Law; Lecturer of Law.

Buckhorn, Robert (1985), B.A., Syracuse University; Professorial Lecturer of Business Administration.

Buckley, Robert M. (1983), B.A., Saint Peter's College; Ph.D., University of Kentucky; Adjunct Professor of Business Administration.

Buckner, John C. (1986), B.A., Stanford University; M.A., University of Hawaii; Professorial Lecturer of Psychology.

Buechner, William (1983), B.A., Amherst College; Ph.D., Harvard University; Adjunct Professor of Business Administration.

Buerkle, Marilyn Louise (1984), B.A., Edinboro State College; M.A., The American University; Lecturer of Communication.

Bunker, Kathy (1985), B.A., Brigham Young University; Lecturer of Literature.

Burchuck, Hillary (1984), B.A., University of Michigan; J.D., The American University; Lecturer of Law.

Burge, James C. (1985), B.S., Mississippi State University; Lecturer of Business Administration.

Burgin, Eileen (1985), B.A., University of Michigan; M.A., Harvard University; Lecturer of Government and Public Administration.

Butta, Charles Gregor (1982), B.A., Towson State University; M.S.W., University of Maryland; Lecturer of Education.

Buttari, Juan (1979), B.A., Universidad de Puerto Rico; M.A., Ph.D., Georgetown University; Adjunct Professor of Economics.

Butterfield, Evan M. (1985), B.A., M.A., University of Illinois; Lecturer of Literature.

Callahan, Marie-France (1985), Degree of Arts and Letters, University of Paris VII; Maitrise de Langues Etrangers Appliquees, Ecole Superieure d'Interpretes et de Traducteurs de la Sorbonne; Lecturer of Language and Foreign Studies.

Calnan, Eugene T. (1979), B.S., U.S. Naval Academy; M.A., Virginia Polytechnic University; Professorial Lecturer of Business Administration.

Calvano, Nikki (1986), B.S., State University of New York; M.A., J.D., Creighton University; Lecturer of Law.

Cameron, Nancy W. (1982), B.S.N., Duke University; M.S.N., Emory University; Lecturer of Nursing.

Caminos, Hugo (1985), J.D, University of Buenos Aires; Professorial Lecturer of Law.

Campbell, Grace Q. (1971), B.A., Barnard College; M.A., The American University; Professorial Lecturer of Language and Foreign Studies.

Cantor, David (1986), A.B., M.S., Ph.D., University of Illinois; Professorial Lecturer of Justice.

Cantor, David (1986), B.A., Grinnell College; M.F.A., George Mason University; Lecturer of Literature.

Cantor, Donna K. (1984), B.A., The American University; Lecturer of Communication.

Carlson, Dianne Behme (1984), B.S.N., The American University; M.S., University of Maryland; Lecturer of Nursing.

Carnahan, Cheryl R. (1985), B.A., Dakota Wesleyan University; M.A., Eastman School of Music; M.A., The American University; Professorial Lecturer of Performing Arts.

Carroll, Thomas (1987), A.B., Western Reserve University; M.S., Ph.D., Cornell University; Adjunct Professor of International Service.

Carter, Martha (1986), B.S., Purdue University; M.B.A., The Wharton School; Lecturer of Business.

Carter, Patricia (1985), B.A., M.A., The George Washington University; Lecturer of Literature.

Carton, Dana (1981), B.A., Brown University; M.A., Ph.D., Columbia University; Professorial Lecturer of Language and Foreign Studies.

Cary, Ann H. (1981), B.S.N., Louisiana State University; M.P.H., Tulane University; Adjunct Professor of Nursing.

Cascio, Charles E. (1976), B.S., Wagner College; M.A., The American University; Professorial Lecturer of Communication.

Casey, Victoria (1987), B.A., Cornell University; M.A., Ph.D., University of Florida; Professorial Lecturer of Psychology.

Cassidy, Jeanne T. (1970), B.S., Columbia University; M.A., Sarah Lawrence College; Professorial Lecturer of Literature.

Cayton, John Michael (1984), B.A., Stanford University; Ph.D., University of Texas at Austin; Professorial Lecturer of Business Administration.

Cha, Chol (1985), Lecturer of Physical Education.

Chaisang, Chaturon (1986), B.A, State University of New York at Buffalo; Lecturer of Economics.

Chang, Te-An (1986), B.S., National Tiawan University; M.S., Emporia University; M.S., University of Kansas; M.S., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Chase, Barbara (1980), B.A., Syracuse University; M.A., The George Washington University; Professorial Lecturer of Language and Foreign Studies.

Chatlos, Jon (1981), B.A., Florida Southern College; M.A., University of Wisconsin; Lecturer of Literature.

Chatterjee, Usasi (1981), B.A., M.A., University of Kent at Canterbury; Ph.D., McGill University; Professorial Lecturer of Language and Foreign Studies.

Chen, Hong-Jen (1980), B.A., National Cheng-chi University (Taipei); Lecturer of Psychology.

Cherry, George (1985), B.S., Syracuse University; M.S., Massachusetts Institute of Technology; Lecturer of Technology and Administration.

Chinoy, Marc (1982), B.A., Amherst College; Professorial Lecturer of Communication.

Chlach, Talal R. (1982), B.S.T.M., M.A., The American University; Lecturer of Technology and Administration.

Cimino, Ronald Allen (1985), B.A., J.D., University of Pittsburgh; Professorial Lecturer of Law.

Cirafici, Peter (1981), A.A.S., Brooklyn College; B.S.B.A., University of Bridgeport; M.S., University of Miami; Professorial Lecturer of Business Administration.

Clair, Maxine (1985), B.S., University of Kansas; M.F.A., The American University; Lecturer of Literature.

Clancy, Thomas K. (1983), B.A., Notre Dame University; J.D., Vermont Law School; Lecturer of Law.

Clapham, Gerald B. (1984), B.S., Saint Francis College; M.B.A., George Mason University; Lecturer of Business Administration.

Claudy, Lynn D. (1984), B.A., B.S., Washington University; M.S., Illinois Institute of Technology; Professorial Lecturer of Physics.

Click, David Lee (1984), B.A., University of California at Los Angeles; J.D., The American University; Lecturer of Law.

Cochrane, Shirley Graves (1974), A.B., Agnes Scott College; M.A., Johns Hopkins University; Lecturer of Literature.

Cohen, Bonnie Rachel (1982), B.A., Howard University; M.A., Cincinnati College Conservatory of Music; Lecturer of Performing Arts.

Cohen, Louise Gail (1984), B.S., University of South Florida; M.Ed., University of North Florida; Ph.D., The American University; Lecturer of Education.

Cohn, Sandra (1984), B.A., M.A., The American University; Lecturer of Language and Foreign Studies.

Colaianni, Joseph V. (1985), B.E.E., Wayne State University; J.D., George Washington University; Professorial Lecturer of Law.

Coleman, Henry A. (1981), B.A., Morehouse College; M.A., Ph.D., Princeton University; Adjunct Professor of Business Administration.

Collender, Stanley (1981), B.A., New York University; M.M.P., University of California; Professorial Lecturer of Government and Public Administration.

Colletta, John Philip (1983), B.A., State University of New York; M.A., Ph.D., The Catholic University of America; M.A., Middlebury College Graduate School of French in Paris; Professorial Lecturer of Language and Foreign Studies.

Collins, Kathleen (1986), B.S.Ed., University of Kansas; M.A., Ph.D., The Catholic University of America; Professorial Lecturer of Language and Foreign Studies.

Comarow, Murray (1976), LL.B., National University School of Law; Distinguished Adjunct Professor in Residence of Government and Public Administration.

Combs, Gary W. (1984), B.B.A., Baylor University; Ph.D., University of Southern California; Adjunct Professor of Government and Public Administration.

Comtois, Joseph (1986), B.S., University of Conneticut; M.P.A., George Mason University; Lecturer of Business Administration.

Connolly, Joseph G., Jr. (1982), B.A., Manhattan College; J.D., Georgetown University; Adjunct Professor of Law.

Connor, Ann M. (1982), B.S., St. Joseph College; M.S., Virginia Polytechnic Institute; Adjunct Professor of Nursing.

Connors, Maureen (1982), B.A., Ursuline College; M.A., Ph.D., The Catholic University of America; Adjunct Professor of Government and Public Administration.

Conroy, Frank (1986), B.A., Haverford College; Adjunct Professor of Literature.

Contos, Harry (1977), B.A., Northeastern University; M.S., The George Washington University; Adjunct Professor of Technology and Administration.

Conway, Steven M. (1986), B.S., U.S. Coast Guard Academy; M.A., University of Bridgeport; M.A., Yale University; Lecturer of Technology and Administration.

Cook, Kathryn Gill (1985), B.A., University of Pennsylvania; Ph.D., The George Washington University; Professorial Lecturer of Literature.

Cook, Nancy L. (1984), B.A., Ohio State University; J.D., Georgetown University; Lecturer of Law.

Cooke, Timothy W. (1985), B.S., George Mason University; M.A., Ph.D., Johns Hopkins University; Lecturer of Government and Public Administration.

Cooper, Benjamin S. (1984), B.A., Swarthmore College; Ph.D., University of Virginia; Professorial Lecturer of Physics.

Cooper, Mark N. (1984), B.A., City College of New York; M.A., University of Maryland; Ph.D., Yale University; Lecturer of Law.

Cooper, Roger (1984), B.S., University of Utah; M.S.A., The George Washington University; M.B.A., University of Southern California; Lecturer of Technology and Administration.

Coopersmith, Katherine M. (1985), B.S.N., Seattle University; M.S.N., The Catholic University of America; Lecturer of Nursing.

Cornaglia, Carla M. (1984), B.A., Universita' Cattolica Del Sacro Cuore; M.A., Duquesne University; Lecturer of Literature.

Cotter, James T. (1978), B.A., Marquette University; Adjunct Professor of International Service.

Cousins, Edward (1985), B.A., Suffolk University; M.A., University of Connecticut; Lecturer of Business Administration.

Couts, Gilbert (1971), B.A., Texas Christian University; Ph.D., Georgetown University; Professorial Lecturer of Language and Foreign Studies.

Covello, Leonard V. (1973), B.S.F.S., Georgetown University; M.A., Ph.D., The American University; Professorial Lecturer of Technology and Administration.

Cox, Connie L. (1983), B.A., M.Ed., University of Delaware; Professorial Lecturer of Literature.

Coyne, Edward (1984), B.A., M.A., Case Institute of Technology; M.A., The American University; Ph.D., Georgetown University; Professorial Lecturer of Technology and Administration.

Crandall, JoAnn (1986), B.A., Ohio University; M.A., University of Maryland; M.S., Ph.D., Georgetown University; Professorial Lecturer of Language and Foreign Studies.

Crane, Daniel M. (1985), A.B., Holy Cross College; M.A., Ph.D., University of Virginia; J.D., Boston College; M.P.A., John F. Kennedy School of Government; Professorial Lecturer of Law.

Crimi, Elizabeth (1978), B.S., University of Kansas; M.S., The American University; Lecturer of Justice.

Crissman, Louise T. (1984), B.A., Middlebury College; M.A., The American University; Ph.D., University of Maryland; Professorial Lecturer of Language and Foreign Studies.

Critchfield, Lucinda (1977), B.A., Indiana University of Pennsylvania; M.A., The American University; Professorial Lecturer of Language and Foreign Studies.

Croce, Ann J. (1986), B.A., Yale University; M.A., Brown University; Lecturer of Literature.

Crosby, Robert Douglas (1975), A.B., University of Virginia; M.S., University of Arizona; Ph.D., University of California at Los Angeles; Professorial Lecturer of Mathematics, Statistics, and Computer Science.

Cross, Stephen M. (1985), B.A., Texas Christian University; Ph.D., University of Virginia; Professorial Lecturer of Business Administration.

Cruse, Carol J. (1983), B.A., Dickinson College; M.A., Middlebury College; Lecturer of Language and Foreign Studies.

Crutchfield, E. B. (1985), B.A., M.A., The American University; Professorial Lecturer of Physics.

Cruz, Paula (1987), B.A., Webster College; M.A.T., Fordham University; Lecturer of International Service.

Cuddihy, Louise N. (1983), B.A., Marianopolis College; M.A., McGill University; Lecturer of Language and Foreign Studies.

Cunningham, Robin P. (1984), B.S.N., M.S.N., East Carolina University; Lecturer of Nursing.

Curry, Timothy (1985), B.S., King's College; M.A., The Pennsylvania State University; Ph.D., The George Washington University; Professorial Lecturer of Business Administration.

Dacanay, Robert J. (1985), M.A., The American University; Lecturer of Psychology.

Dalali, Hadi (1983), B.S., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Dale, Charles J. (1986), B.S., Kent State University; M.S., University of Georgia; M.D.S., Ph.D., Georgia State University; Lecturer of Business Administration.

Daly, Jorge (1981), B.S., Universidad de Lima; M.B.A., State University of New York at Binghamton; Lecturer of Economics.

Daniels, Joel S. III (1983), B.S., M.S., The American University; Lecturer of Physics.

Daniels, Theodore R. (1981), B.S., Fort Valley State College; B.L., John Marshall Law School; Lecturer of Education.

D'Aquino, Iria (1986), B.A., Queens College, City University of New York; M.A., Ph.D., University of Illinois; Professorial Lecturer of Anthropology.

Dark, Lawrence (1985), B.A., Denison University; J.D., Northwestern University; Lecturer of Community Studies.

Darr, Ann (1982), B.A., State University of Iowa; Adjunct Professor of Literature.

Darsie, Janet B. (1985), B.A., University of Delaware; M.F.A., The Maryland Institute; Lecturer of Communication.

Davis, Keith (1984), M.B.A., The George Washington University; J.D., George Mason University; Professorial Lecturer of Business Administration.

Davis, Lennard (1984), B.A., San Jose State University; M.A., Ph.D., University of Southern California; Professorial Lecturer of Business Administration.

Davis, Robert N. (1986), B.A., The University of Hartford; J.D., Georgetown University Law Center; Professorial Lecturer of Justice.

Davis–Sbaschnig, Cynthia (1986), B.A., Boston College; M.A., Georgetown University; Lecturer of Literature.

Day, James M. (1984), B.A., Piedmont College; LL.B., The American University; Professorial Lecturer of Law.

Dean, Kenda Creasy (1986), B.S., M.A., Miami University; Lecturer of Communication.

Dean, Kevin W. (1986), B.S.Ed., Bowling Green State University; M.A., Miami University; Lecturer of Government and Public Administration.

Deane, Michael Joseph (1985), B.A., Belmont Abbey College; M.A.Ed., University of North Carolina; M.A., Ph.D., University of Miami; Adjunct Professor of History.

De Jong, David S. (1983), B.A., University of Maryland; J.D., Washington and Lee University; LL.M., Georgetown University; Adjunct Professor of Business Administration.

DeLaFuente, Charles (1985), B.A., University of the State of New York; J.D., Benjamin N. Cardozo School of Law; Lecturer of Law.

Delaney, John Joseph (1978), B.S.S., LL.B., Georgetown University; Lecturer of Law.

Delfin, Stephen M. (1985), B.S., University of Maryland; Lecturer of Communication.

Delmar, Denise Jacqueline (1984), B.A., M.A., University of Aix-Marseille (France); Lecturer of Language and Foreign Studies.

Delp, H. Peter (1983), B.S., M.S., Ph.D., University of California at Berkeley; Professorial Lecturer of International Service.

DeLuca, Salvatrice (1975), B.S., Georgetown University; Professorial Lecturer of Language and Foreign Studies.

Dembling, Ross W. (1986), B.A., Miami University; J.D., The George Washington University; Lecturer of Business Administration.

deMichaelis, Jeremiah (1979), B.A., Boston College; M.B.A., The American University; Professorial Lecturer of Business Administration.

Dennis, Michael (1982), B.A., The American University; Lecturer of Art.

Denny, Susan (1978), Associate B.A., Colby Junior College; Adjunct Professor of Performing Arts.

dePinho, Mary V. (1984), A.B., Sarah Lawrence College; M.A., The American University; Lecturer of Language and Foreign Studies.

Derakhshesh, Derayeh (1985), B.A., University of Tehran; M.A., University of Paris III; Ph.D., University of Paris X; Professorial Lecturer of Language and Foreign Studies.

Derman, Donald (1987), B.A., M.A., University of Connecticut; Lecturer of Government and Public Administration.

Diamond, Jean R. (1986), B.S., Tufts University; M.F.A., Maryland Institute College of Art; Lecturer of Education.

Dickens, Billy R. (1984), B.A., University of the District of Columbia; M.A., The American University; Lecturer of Economics.

Dickey, Vera V. (1985), B.A., M.A., University of Missouri; Lecturer of Literature.

Dientsfrey, Stephen J. (1979), B.A., M.A., California State University; Adjunct Professor of Business Administration.

DiFonzo, James H. (1986), B.S., St. Joseph's College; M.A., J.D., University of Virginia; Lecturer of Law.

Di Maria, Thomas A. (1986), A.A., B.F.A., Rochester Institute of Technology; M.F.A., Maryland Institute, College of Art; Lecturer of Communication.

DiMisa, Samuel T. (1979), A.B., Georgetown University; M.S., M.B.A., The American University; Adjunct Professor of Business Administration.

Dimitrieff, Tamara (1985), Teacher's and Artist's Diplomas from the New England Conservatory of Music; Professorial Lecturer of Performing Arts.

Dinerstein, Robert D. (1984), A.B., Cornell University; J.D., Yale University; Lecturer of Law.

Dirda, Michael (1985), B.A., Oberlin College; M.A., Cornell University; Adjunct Professor of Literature.

Dively, Michael (1986), B.A., Williams College; J.D., University of Michigan; Lecturer of Government and Public Administration.

Douglas, James S. (1985), Lecturer of Communication.

Doyle, James R. (1984), B.S., Holy Cross College; M.P.A., The American University; Professorial Lecturer of Technology and Administration.

Drexler, Allan B. (1986), B.S., Long Island University; M.S., Pennsylvania State University; Ph.D., Purdue University; Lecturer of Government and Public Administration.

Dubinski, Edward (1984), B.A., The American University; Lecturer of Language and Foreign Studies.

Duerling, Nancy (1980), B.A., Towson State University; M.S., Johns Hopkins University; Ph.D., The American University; Adjunct Professor of Literature.

Duffy, Michael K. (1981), B.A., University of Oregon; M.A., Ph.D., University of Chicago; Professorial Lecturer of Economics.

Duncan, Cameron (1986), B.A., Stanford University; M.A., University of Texas at Austin; Ph.D., The American University; Professorial Lecturer of International Service.

Dussert, Claudine (1985), S.P.C.N., Universite de Grenoble; C.N.O.F., College des Sciences Sociales et Economiques; M.A., The American University; Lecturer of Sociology.

Du Val, Elinor (1984), B.S.N., University of Pittsburgh; M.S.N., The Catholic University of America; R.N., Presbyterian University Hospital School of Nursing; Lecturer of Nursing.

Dwinnell, Harriet Douty (1984), B.A., Duke University; M.A., The American University; Lecturer of Literature.

Dwyer, Eugene (1984), B.S., Georgetown University; LL.B., The Catholic University of America; Lecturer of Technology and Administration.

Dwyer, Kathy (1978), B.B.A., M.A., University of Wisconsin; Adjunct Professor of Performing Arts.

Earl, Silvana (1982), B.A., University of North Carolina; Lecturer of Language and Foreign Studies.

Edmisten, Jane M. (1978), B.A., M.A., University of North Carolina; J.D., The George Washington University; Adjunct Professor of Law.

Edynak, Gloria J. (1986), B.A., Goucher College; M.A., Ph.D., Harvard University; Professorial Lecturer of Anthropology.

Effros, Robert C. (1982), A.B., LL.B., Harvard University; LL.M., Georgetown University; Adjunct Professor of Law.

Ehrlich, Lisa Marie (1985), B.A., Stanford University; Ph.D., University of Pennsylvania; Professorial Lecturer of Government and Public Administration.

Einstein, Laura (1984), B.A., Trinity College; J.D., The American University; Lecturer of Law.

Eisele, Victoria (1984), B.S., Bethany College; Lecturer of Mathematics, Statistics, and Computer Science.

Eisenhower, Donna L. (1985), B.A., The American University; M.C.R.P., University of North Carolina; Ph.D., University of Maryland; Lecturer of Government and Public Administration.

Eisler, Ronald (1985), B.A., New York University; M.S., Ph.D., University of Washington; Adjunct Professor of Biology.

Elahi, Hashmat Altaf (1986), B.S., M.S., Memphis State University; M.A.S., Johns Hopkins University; Lecturer of Technology and Administration.

El-Kafass, Azzat A. (1984), B.S.N., Higher Institute of Nursing; M.S.N., D.N.Sc., The Catholic University of America; Professorial Lecturer of Nursing.

Elliott, Teresa G. (1978), B.A., M.C.A., The Catholic University of America; Ph.D., University of Maryland; Adjunct Professor of Communication.

Ellis, George (1984), B.A., Yale University; M.S., The George Washington University; Professorial Lecturer of Business Administration.

Elton, Raymond C. (1986), B.A., Virgina Polytechnic and State University; M.S., Ph.D., University of Maryland; Adjunct Professor of Physics.

Elwood, Robert (1980), B.A., Suffolk University; M.A., Ph.D., The American University; Professorial Lecturer of Technology and Administration.

Emanuel, Linda J. (1983), B.A., Clarion State College; M.A., Ph.D., Pennsylvania State University; Professorial Lecturer of Language and Foreign Studies.

Endar, Usama A. (1986), B.S., Portland State University; M.A., Ph.D., The American University; Lecturer of International Service.

Enger, Norman R. L. (1966), B.A., M.A., City College of New York; M.A., New York University; Adjunct Professor of Technology and Administration.

Engle, Philip (1985), B.A., University of Vermont; M.P.A., The American University; Lecturer of Business Administration.

Enrico, Maria (1981), B.A., Columbia University; M.A., The Catholic University of America; Lecturer of Language and Foreign Studies.

Epler-Wood, Gregory (1986), B.S., Ursina College; M.A., Iowa State University; Professorial Lecturer of Communication.

Epperson, Jon O. (1984), B.S., University of New Mexico; M.A., University of Missouri; Ph.D., Texas A&M University; Adjunct Professor of International Service.

Epsey-English, E. Patricia (1985), B.A., University of Maryland; M.B.A., The George Washington University; Lecturer of Business Administration.

Epstein, David (1981), M.S., LL.B., Georgetown University; Lecturer of Law.

Erauw, Johan Achel (1985), Law Degree and D.S.L., State University of Ghent; Adjunct Professor of Law.

Ernould, Bernadette (1978), D.E.S., M.A., University of Paris (Sorbonne); M.A., The American University; Professorial Lecturer of Language and Foreign Studies.

Eskew, Henry L. (1985), B.S., M.S., Georgia Institute of Technology; M.A., Ph.D., The American University; Professorial Lecturer of Government and Public Administration.

Etters, Ronald (1978), B.A., J.D., The American University; Professorial Lecturer of Business Administration.

Evans, Jay A. (1982), B.A., Stetson University; M.A., Duke University; Professorial Lecturer of Literature.

Eveland, John D. (1984), B.A., Reed College; M.P.I.A., University of Pittsburgh; M.P.H., Ph.D., University of Maryland; Adjunct Professor of Technology and Administration.

Eyck, Gunther (1957), B.A., Alma College; M.A., Ph.D., New York University; M.S., Columbia University; Adjunct Professor of International Service.

Fagan, Stanley A. (1969), B.S., Brooklyn College; M.A., Ph.D., University of Pennsylvania; Adjunct Professor of Education.

Fakhry, Majid F. (1985), B.A., M.A., American University of Beirut; Ph.D., University of Edinburgh; Adjunct Professor of Philosophy and Religion.

Fairbairn, James (1979), B.S., J.D., The American University; Professorial Lecturer of Business Administration.

Fallik, Fred (1985), B.A., Northeast Missouri State University; M.A., Ph.D., Michigan State University; Professorial Lecturer of Technology and Administration.

Falzon, Alicia M. de la Torre (1983), B.A., The Catholic University of America; M.A., The American University; Ph.D., The George Washington University; Lecturer of Language and Foreign Studies.

Farber, Theodore M. (1986), B.S., Brooklyn College of Pharmacy; Ph.D., Medical College of Virginia; Adjunct Professor of Chemistry.

Farren, Caela (1985), B.A., Mundelein College; Ph.D., Case Western Reserve University; Lecturer of Government and Public Administration.

Fassberg, Harold E. (1968), A.B., Ohio State University; M.A., University of Pittsburg; Ph.D., The American University; Adjunct Professor of Business Administration.

Faulkner, Heather C. (1973), B.A., University of Birmingham (England); M.A., The George Washington University; Professorial Lecturer of Literature.

Feld, Rita M. (1984), M.A., Odessa State University; Lecturer of Language and Foreign Studies.

Feldman, Elizabeth B. (1985), B.A., Rutgers University; M.S., Northwestern University; Lecturer of Communication.

Filetti, Jean Smith (1983), B.S., Clarion State College; M.A., Ph.D., University of Toledo; Professorial Lecturer of Literature.

Finley, Patrick L. (1985), B.A., University of Maryland; M.A., The George Washington University; Lecturer of Physical Education.

Finn, Jeffrey (1983), B.A., University of Michigan; M.S., The American University; Lecturer of Communication.

Firdyiwek, Yitna B. (1986), B.A., Virginia Polytechnic University; M.A., Brown University; M.A., George Mason University; Lecturer of Literature.

Fischman, Marilyn (1984), B.S., The American University; Lecturer of Communication.

Fishman, Paul A. (1983), B.S.B.A., M.A., The American University; Lecturer of International Service.

Fisk, Catherine (1985), B.A., Rhodes University; Lecturer of Language and Foreign Studies.

Fitterman, Mark D. (1985), A.B., Oberlin College; M.B.A., Wright State University; J.D., Georgetown University; Lecturer of Law.

Fixler, Dennis (1986), B.A., Boston University; M.S., Ph.D., Purdue University; Professorial Lecturer of Business Administration.

Fleshner, Robert (1984), B.S., Boston University; J.D., The George Washington University; Lecturer of Business Administration.

Fletcher, Carlton (1984), B.F.A., Rhode Island School of Design; M.F.A., The American University; Lecturer of Art.

Fleuret, Anne (1983), B.A., M.A., Ph.D., University of California at Santa Barbara; Professorial Lecturer of Anthropology.

Florkowski, Alan (1984), B.S., University of Rochester; M.B.A., The American University; Lecturer of Technology and Administration.

Fogash, Kenneth A. (1968), B.S., Pennsylvania State University; M.B.A., The George Washington University; Professorial Lecturer of Technology and Administration.

Fones, Nancy (1986), B.S., M.A., Ohio State University; Ph.D., Gallaudet College; Professorial Lecturer of Education.

Foote, Audrey C. (1983), B.A., Wellesley College; M.A., Harvard University; M.Phil., Columbia University; Lecturer of Literature.

Forrest, Sidney S. (1986), B.A., University of Miami; M.A., Columbia University; Adjunct Professor of Performing Arts.

Forsythe, John G. (1983), B.A., Alfred University; Lecturer of Language and Foreign Studies.

Fosen, Robert H. (1985), A.B., Chico State College; M.S., Ph.D., Cornell University; Adjunct Professor of Justice.

Foster, Paul (1985), B.S., Ohio State University; J.D., New York University; Adjunct Professor of Law.

Fotopoulos, Sophia (1985), B.A., M.A., Ph.D., University of Kansas; Adjunct Professor of Psychology.

Franck, Isaac (1983), B.S., New York University; Ph.D., University of Maryland; Adjunct Professor of History.

Franzen, Richard S. (1978), B.A., Yale University; M.S., The American University; Lecturer of Business Administration.

Frazier, Thomas (1986), B.S., M.A., Ohio University; Ph.D., The American University; Lecturer of Government and Public Administration.

Fredrickson, Bruce A. (1986), B.A., Dartmouth College; J.D., The George Washington University; Lecturer of Law.

Friedland, Steven (1984), B.A., State University of New York at Binghamton; J.D., Harvard University; Professorial Lecturer of Justice.

Friedman, Daniel M. (1987), A.B., Columbia College; LL.B., Columbia Law School; Adjunct Professor of Law.

Fries, Howard G. (1986), B.S., Syracuse University; Lecturer of Business.

Fuertes, Covadonga M. (1978), B.A., San Jose University; Lecturer of Language and Foreign Studies.

Fulton, Rolland S., III (1986), B.A., Miami University; Ph.D., Duke University; Professorial Lecturer of Biology.

Fulwood, Sam (1987), B.A., University of North Carolina at Chapel Hill; Lecturer of Communications.

Funches, Daryl (1984), B.A., Lake Forest College; M.A., University of North Carolina; Lecturer of Government and Public Administration.

Gail, Beverly (1986), B.A., M.A., The American University; Lecturer of Language and Foreign Studies.

Gain, Sandra (1983), B.A., Stockton State College; Lecturer of Economics.

Gainer, Joseph A. (1986), B.A., Western Maryland College; M.F.A., University of North Carolina; Lecturer of Literature.

Gaines, Robert M. (1984), A.A.S, Dutchess Community College; B.S., Rochester Institute of Technology; Lecturer of Education.

Galbraith, Carol J. (1985), B.A., Vassar College; J.D., Arizona State University; Professorial Lecturer of Justice.

Galvin, Deborah M. (1983), B.A., University of Maryland; M.A., Ph.D., University of Pennsylvania; Professorial Lecturer of Justice.

Garfinkel, Renee (1987), B.A., The American University; Ph.D., Lund University, Sweden; Professorial Lecturer of Psychology.

Gary, Michelle K. (1986), B.A., J.D., Georgetown University; Lecturer of Law.

Gavett, Geoffery S. (1983), B.A., The George Washington University; J.D., The American University; Lecturer of Law.

Gazella, Kim M. (1985), B.A., Michigan State University; M.A., The American University; Lecturer of Communication.

Gelb, Michael (1985), B.A., Pennsylvania State University; Lecturer of Communication.

Gelberg, Alan (1969), B.S., City College of New York; M.S., University of Missouri; Professorial Lecturer of Chemistry.

Geraghty, John P. (1984), B.A., University of Dayton; M.S., Georgetown University; C.C.P., Chubb Institute; Lecturer of Technology and Administration.

Germain, Kenneth B. (1987), A.B., Rutgers College; J.D., New York University School of Law; Adjunct Professor of Law.

Gerwig, Kathryn C. (1984), B.A., University of Vermont; M.A., University of Missouri; Lecturer of Literature.

Ghareeb, Edmund (1982), B.A., American International College; M.A., Ph.D., Georgetown University; Professorial Lecturer of International Service.

Gillespie, Gardner F. (1985), B.A., Williams College; J.D., University of Virginia; Professorial Lecturer of Law.

Gindhart, Patricia S. (1972), A.B., University of Pennsylvania; Ph.D., University of Texas; Adjunct Professor of Anthropology.

Giorgis, Telda (1985), B.A.,Concordia College; M.S., Moorhead State University; Ph.D., Washington State University; Professorial Lecturer of Community Studies.

Glenn, Vicki (1984), B.A., Macalester College; Lecturer of Communication.

Glick, Peter J. (1984), B.A., State University of New York at Birmingham; Lecturer of Economics.

Gochman, Stanley I. (1983), B.S., Queens College; M.A., Columbia University; Ph.D., New York University; Adjunct Professor of Psychology.

Goddard, Cathryn (1984), B.A., Arizona State University; Ph.D., University of Paris (Sorbonne); Lecturer of Business Administration.

Godding, Diane D. (1983), B.S., University of Texas at El Paso; M.S., The George Washington University; Professorial Lecturer of Business Administration.

Goff, Robert O. (1967), B.A., Emory and Henry College; LL.B., University of Richmond; M.A., The American University; Professorial Lecturer of Justice.

Goldberg, Barbara (1983), B.A., Mount Holyoke College; M.A., Yeshiva University; M.Ed., Columbia University; Lecturer of Literature.

Golden, James R. (1983), B.S., Stetson University; J.D., University of Florida; Professorial Lecturer of Business Administration.

Goldman, Donald (1984), B.S., Massachusetts Institute of Technology; M.S., M.B.A., University of Maryland; Professorial Lecturer of Business Administration.

Golino, Fabrizio Raffaela (1984), B.S., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Golla, Victor K. (1985), B.A., Ph.D., University of California at Berkeley; Adjunct Professor of Anthropology.

Gondelman, Larry S. (1984), B.A., Brandeis University; J.D., Georgetown University; Professorial Lecturer of Law.

Gordon, Hugh B. (1983), A.B., Harvard College; M.L.S., Simmons College; J.D., Duke University; Lecturer of Law.

Gottreich, Lisa (1986), B.A., University of California; M.A., The American University; Lecturer of Languages and Foreign Studies.

Goudreau, Nancy (1985), B.S., Fitchburg State College; M.A., City University of New York; Lecturer of Literature.

Goulden, Emily Jo (1983), B.A., State University of Iowa; Professorial Lecturer of Communication.

Gran, Guy (1986), B.A., Yale University; M.A., University of Washington; Ph.D., Yale University; Professorial Lecturer of International Service.

Gourevitch, Harry G. (1986), Ph.D., University of Chicago; LL.B., Columbia University; Adjunct Professor of Law.

Gran, Guy (1986), B.A., Yale University; M.A., University of Washington; Ph.D., Yale University; Professorial Lecturer of International Service.

Grasso, Michael A. (1986), B.S., University of Maryland; M.S., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Gray, James G., Jr. (1974), B.A., University of Richmond; M.A., The American University; Professorial Lecturer of Communication.

Greenberg, Elizabeth J. (1986), B.A., M.A., University of California at Berkeley; Lecturer of Government and Public Administration.

Gregg, John P. (1984), B.A., Hobart College; J.D., The American University; Lecturer of Law.

Greig, Barbara (1976), B.A., New School for Social Research; M.Ed., University of Maryland; Adjunct Professor of Government and Public Administration.

Griesgraber, Jo Marie (1986), B.A., University of Dayton; M.A., Ph.D., The George Washington University; Professorial Lecturer of Government and Public Administration.

Griffith, Robert Kenaston, Jr. (1984), B.S., United States Military Academy; M.A., Ph.D., Brown University; Adjunct Professor of History.

Grimaldi, John J., III (1985), B.A., Georgetown University; J.D., The American University; Lecturer of Law.

Grodner, Teena D. (1980), B.S., University of Illinois; J.D., The American University; Professorial Lecturer of Law.

Groscup, Suzanne (1980), B.A., College of William and Mary; B.A., University of Pennsylvania; M.Ed., University of Virginia; Lecturer of Education.

Groskin, Richard B. (1980), B.A., Pennsylvania State University; M.A., Lehigh University; Ph.D., University of Maryland; Adjunct Professor of Justice.

Gross, Mark L. (1985), B.A., Rutgers University; J.D., Georgetown University; Lecturer of Law.

Gross, Mary Christine (1970), B.A., Cornell College; M.A., The George Washington University; Professorial Lecturer of Biology.

Gross, Michael B. (1981), B.A., Bucknell University; M.A., Ed.D., The George Washington University; Professorial Lecturer of Education.

Guarino, Anthony J. (1985), A.B., University of California of Berkeley; M.S., University of Southern California; Lecturer of Psychology.

Gullo, Anthony Michael (1984), B.S., Northern Illinois University; M.A., University of Michigan; Lecturer of Nursing.

Gutteridge, Thomas (1985), B.I.E., General Motors Institute; M.S., Ph.D., Purdue University; Adjunct Professor of Government and Public Administration.

Haendel, Dan (1978), B.A., M.A., M.B.A., Ph.D., J.D., University of Pennsylvania; Professorial Lecturer of International Service.

Halpern, Jacob I. (1985), B.A., Brooklyn College; M.A., University of Minnesota; Lecturer of History.

Hamill, Michal Lorraine (1985), L.P.N., Oak Forest School of Practical Nursing; R.N., Prairie State College; B.S.N., The American University; M.S.N., The Catholic University of America; Lecturer of Nursing.

Handlon, James W. (1983), B.S.B.A., University of North Carolina; M.B.A., The George Washington University; Adjunct Professor of Business Administration.

Hannum, Hurst (1987), A.B., J.D., University of California at Berkeley; Professorial Lecturer of Law.

Hansen, Carol D. (1985), B.S., M.A.T., University of Illinois; Ph.D., University of North Carolina at Chapel Hill; Professorial Lecturer of Education.

Hanson, Elizabeth I. (1984), B.A., Goucher College; M.A., Ph.D., University of Pennsylvania; Professorial Lecturer of Literature.

Harbeck, Stephen P. (1985), B.A., Holy Cross College; J.D., Cornell University; Professorial Lecturer of Law.

Hardy, Adriana (1977), A.S., Auburn Community College; B.S., Fredonia State Teachers College; Lecturer of Performing Arts.

Haritos, Mary J. (1986), B.A., M.A., University of Illinois; Ph.D., Northwestern University; Professorial Lecturer of Language and Foreign Studies.

Harney, John (1985), B.A., Randolph-Macon College; M.F.A., Columbia University; Lecturer of Literature.

Harper, John K. (1984), M.S., University of Tennessee; Ph.D., The George Washington University; Lecturer of Government and Administration.

Harps, William (1973), B.S., Howard University; Professorial Lecturer of Business Administration.

Harrald, John R. (1984), B.S., U.S. Coast Guard Academy; M.A.L.S., Wesleyan University; M.S., Massachusetts Institute of Technology; M.B.A., Ph.D., Rensselaer Polytechnic Institute; Professorial Lecturer of Technology and Administration.

Harris, David R. (1973), B.S., B.A., Carnegie Mellon University; M.A., Texas Christian University; Ph.D., Ohio State University; Adjunct Professor of Technology and Administration.

Harris, Robert (1981), A.B., Columbia University; LL.B., Yale University; LL.M., Georgetown University; Adjunct Professor of Law.

Harrison, Harry (1985), B.S., The American University; Lecturer of Business Administration.

Harrison, Robert (1978), G.B.S., Georgetown University; J.D., University of Baltimore; Lecturer of Physical Education.

Hartley, Delmar D. (1984), B.S., M.B.A., Texas Technical University; Ph.D., University of Kansas; Professorial Lecturer of Business Administration.

Hassan, Hugh J. (1985), B.A., Georgetown University; Adjunct Professor of Performing Arts.

Hathaway, Kristl (1985), B.S., Cornell University; M.S., University of California at San Diego; Ph.D., Cornell University; Professorial Lecturer of Physics.

Hattal, Gary (1986), B.A., M.A., University of Maryland; Lecturer of Communication.

Hawkins, Robert Norman (1985), B.S., Mississippi College; Ph.D., University of Mississippi; Professorial Lecturer of Biology.

Haworth, David (1986), Lecturer of Communication.

Hauge, Sharon K. (1973), B.A., Fort Hays State University; M.S., Oklahoma State University; Adjunct Professor of Mathematics, Statistics, and Computer Science.

Heffner, Michael C. (1985), B.M., B.S., University of Maryland; Lecturer of Technology and Administration.

Heiber, Patricia G. (1985), B.A., State University of New York; M.A., Fairleigh Dickinson University; Lecturer of Psychology.

Hein-Dunne, Marlene (1982), B.A., University of California at Berkeley; M.A., Columbia University; Professorial Lecturer of Language and Foreign Studies.

Held, Walter (1982), A.B., Bucknell University; M.A., Ph.D., The American University; Adjunct Professor of Business Administration.

Helgesen, Malvin M. (1984), B.A., Ph.D., State University of New York; M.A., University of Vermont; Professorial Lecturer of International Service.

Heller, Richard (1983), B.A., Yale College; J.D., Harvard Law School; Professorial Lecturer of Law.

Hemple, William (1984), B.A., Syracuse University; M.A., Ph.D., The American University; Adjunct Professor of Justice.

Henderson, Carol E. (1983), B.A., University of Florida; J.D., The George Washington University; Professorial Lecturer of Justice.

Henderson, Phillip (1984), B.A., University of Michigan; M.A., University of Illinois; Lecturer of Government and Public Administration.

Heneghan, Michael (1979), B.A., St. Patrick's College; M.A., West Texas State University; Professorial Lecturer of Literature.

Henoch, Ruth (1972), A.B., Stanford University; M.A., The American University; Professorial Lecturer of Literature.

Henry, Mary E. (1986), A.B., Colby College; M.A., University of Hawaii; Lecturer of Literature.

Hernandez, Luz J. (1985), B.A., Universidad del Atlantico, Columbia; Lecturer of Language and Foreign Studies.

Herndon, Ruth Wallis (1987), B.A., University of Houston; M.A., The American University; Lecturer of History.

Herold, Persis Joan (1978), A.B., Radcliffe College; M.Ed., The American University; Professorial Lecturer of Education.

Herrick, Charles N. (1986), B.A., Fort Lewis College; M.A., University of Colorado; Lecturer of Government and Public Administration.

Hershenson, Marian V. (1985), A.B., Harvard University; M.A., Roosevelt University, Lecturer of Government and Public Administration.

Hibey, Richard A. (1972), A.B., Lemoyne University; J.D., LL.M. Georgetown University; Adjunct Professor of Law.

Highsmith, Newell Long (1985), B.A., University of North Carolina at Chapel Hill; J.D., Harvard Law School; Professorial Lecturer of Justice.

Hill, Linda (1986), B.S., Montana State University; M.A., Humboldt State University; Ph.D., Kent State University; Professorial Lecturer of History.

Hill, Paul (1984), B.Me., Loma Linda University; M.M., University of Southern California; Adjunct Professor of Performing Arts.

Hiller, Elinor (1985), A.A., La Salle Extension University; B.A., University of Maryland; M.A., The American University; Lecturer of Literature.

Hitlin, Robert A. (1976), B.A., Brooklyn College; M.A., Ph.D., Vanderbilt University; Adjunct Professor of Government and Public Administration.

Hochhauser, Lois (1984), B.A., Vassar College; M.A., Columbia University; J.D., Howard University; M.L., Georgetown Law Center; Professorial Lecturer of Government and Public Administration.

Hodgetts, Richard M. (1985), B.S., New York University; M.B.A., Indiana University; Ph.D., University of Oklahoma; Professorial Lecturer of Business Administration.

Hoke, Elizabeth (1985), B.A., University of Rochester; M.L.S., University of Maryland; Lecturer of Education.

Holliday, Steven E. (1985), B.A., University of Chicago; M.A., Northwestern University; Lecturer of Performing Arts.

Holsen, Miriam (1984), A.B., University of Chicago; M.S.T., The George Washington University; Lecturer of Education.

Honadle, Beth Walter (1986), B.A., University of Wisconsin; M.P.A., M.A., Ph.D., Syracuse University; Adjunct Professor of Government and Public Administration.

Honadle, George (1983), A.B., Dickinson College; M.P.A., Ph.D., Syracuse University; Professorial Lecturer of International Service.

Hooper, Robert S. (1985), B.S., Seattle University; M.A., The American University, Professorial Lecturer of Technology and Administration.

Horn, Beverly (1984), B.A., Washington College; J.D., University of North Carolina; Lecturer of Law.

Horner, Jack (1979), B.A., Kansas Wesleyan University; Professorial Lecturer of Business Administration.

Horowitz, Lenore W. (1977), A.B., Brown University; Ph.D., Cornell University; Professorial Lecturer of Literature.

Horstman, Harry (1986), B.S., The American University; Lecturer of Business Administration.

Houde, Jean M. (1980), B.A., Harvard University; M.A., Fletcher School of Law and Diplomacy; Lecturer of Economics.

Houston, Joseph (1979), B.S., University of Maryland; M.B.A., The American University; Lecturer of Business Administration.

Howard, Judith Jeffrey (1986), B.A., University of Rochester; M.A., Columbia University; Ph.D., University of Connectiuct; Professorial Lecturer of History.

Howe, Joseph G. (1985), B.A., J.D., University of Virginia; M.L.T., Georgetown University; Professorial Lecturer of Law.

Howell, George Emory (1973), A.B., Johns Hopkins University; J.D., University of Maryland; Professorial Lecturer of Business Administration.

Huang, Xiumin (1985), Yunnan University, Peoples' Republic of China; Lecturer of Language and Foreign Studies.

Hubard, Margaret C. (1982), B.A., Vassar College; Professorial Lecturer of Education.

Huber, John J. (1980), J.D., University of Wisconsin; LL.M., Georgetown University; Lecturer of Law.

Hudnell, Lewis E., Jr. (1986), B.A., Morgan State University; J.D., Howard School of Law; Professorial Lecturer of Education.

Hudson, Carl R. (1985), Lecturer of Performing Arts.

Hudson, Edward (1984), B.S., M.S., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Huffman, Sabrina Lynne (1984), B.A., University of North Carolina at Greensboro; Lecturer of Language and Foreign Studies.

Hughes, Lou J. (1986), B.S., University of Minnesota; M.S., Ph.D., Cornell University; Adjunct Professor of Chemistry.

Hulick, Charles V. (1981), B.S., University of Pennsylvania; M.B.A., The American University; Lecturer of Business Administration.

Hull, Elsie Y. (1985), A.A., Bennet College; B.F.A., Corcoran School of Art; M.A., The American University; Lecturer of Communication.

Hunter, William (1983), B.S., Northeastern University; M.B.A., University of Hartford; M.S., Naval Postgraduate School; Ph.D., California Western University. Adjunct Professor of Business Administration.

Hurme, Sally Balch (1982), B.A., Tulane University; J.D., The American University; Lecturer of Law.

Hwang, John D. (1983), B.S., University of California; M.A., Ph.D., Oregon State University; Professorial Lecturer of Technology and Administration.

Hyman, John N. (1986), B.A., Middlebury College; M.A., University of Maryland; Lecturer of Literature.

Iacoviello, Louis (1984), B.A., Emerson College; Professorial Lecturer of Communication.

Ibrahim, Ibrahim (1985), M.A., University of Heidelberg; Ph.D., University of Oxford; Professorial Lecturer of International Service.

Ilinsky, Paul (1987), B.A., St. Louis University; M.A., The American University; Lecturer of Languages and Foreign Studies.

Ingle, Marcus D. (1983), M.P.A., University of Washington at Seattle; M.Phil., Ph.D., Syracuse University; Lecturer of International Service.

Inglehart, Loretta J. (1986), B.S., M.S., Ph.D., Wayne State University; Professorial Lecturer of Physics.

Ingrisano, Joseph (1983), B.A., State University of New York; J.D., The American University; Lecturer of Law.

Iniss, Clarence (1985), B.S., Xavier University of Louisiana; M.S., Louisiana State University; Professorial Lecturer of Mathematics, Statistics, and Computer Science.

Ismail, Shaik L. (1975), B.A., Beloit College; M.P.A., The American University; Adjunct Professor of Government and Public Administration.

Jackson, Andrea H. (1985), B.S., D.C. Teachers College; M.A., The American University; Lecturer of Communication.

Jacob, Thomas (1982), B.Sc., M.Sc., University of Dibrugarh; B.Ed., Utkal University; Lecturer of Mathematics, Statistics, and Computer Science.

Jacques, Edward C. (1985), B.S., M.S., Ph.D., Washington University; Lecturer of Technology and Administration.

Jaffe, Harry S. (1982), B.A., Dickenson College; Lecturer of Communication.

James, Jeffrey (1982), B.S., University of Wisconsin at Madison; Ph.D., Syracuse University; Professorial Lecturer of Government and Public Administration.

Jaro, Benita Kane (1983), B.A., California State University; Lecturer of Literature.

Jarrar, Saib K. (1986), B.A., The Israel Institute of Technology; Lecturer of Mathematics, Statistics, Computer Science.

Jarski, Rosemarie, (1985), B.A., The University of Kent; Lecturer of Literature.

Jarvis, Thomas V. (1978), B.A., State University of New York at Stony Brook; M.I.S., Ph.D., The American University; Professorial Lecturer of History.

Jehnsen, David C. (1982), Ed.M., Harvard University; Professorial Lecturer of International Service.

Jiang, Xixiang (1986), B.A., Shanghai University; M.A., The American University; Lecturer of Language and Foreign Studies.

Jimerson, Douglas (1984), B.A., Cornell University; Mus.B., Temple University; Mus.M.,The Catholic University of America; M.B.A., The American University; Lecturer of Business Administration.

Johns, Jeannie (1983), B.S., Rice Institute; B.A., Texas Wesleyan University; M.A., University of Texas; Ph.D., Harvard University; Adjunct Professor of Education.

Johnson, Larry (1985), B.G.S., M.S., University of Missouri; Lecturer of International Service.

Johnson, Richard (1985), B.S., M.A., Georgetown University; Lecturer of History.

Jones, Ellen (1985), B.A., Ph.D., Syracuse University; Lecturer of International Service.

Jones, Robert P. (1980), B.S., M.S., The American University; Lecturer of Business Administration.

Jorgenson, Harry (1985), B.S., United States Military Academy; M.S., Georgetown University; J.D., The Catholic University of America; Lecturer of Literature.

Joseph, James C. (1985), B.S., Oregon State University; M.S., Syracuse University; Lecturer of Government and Public Administration.

Jospe, Alfred (1980), D.D., Hebrew Union College; Ph.D., University of Breslau; Adjunct Professor of History.

Julian, James P. (1983), B.S., Lambuth College; Lecturer of Sociology.

Justus, Thomas (1984), B.S., University of Maryland; M.A., Central Michigan University; Lecturer of Business Administration.

Kablaoui, Samir (1984), B.S., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Kahn, Benjamin M. (1980), A.B., Harvard College; M.H.L., D.H.L., Jewish Theological Seminary; L.H.D., Alfred University; Director and Adjunct Professor of Jewish Studies Program.

Kahn, Steven C. (1986), B.A., Yale University; LL.B., University of Pennsylvania; Lecturer of Law.

Kalof, Linda E. (1985), B.A., University of Florida; M.A., George Mason University; Lecturer of Sociology.

Kalogridis, Jeanne M. (1981), A.A., Polk Community College; B.A., University of South Florida at Tampa; M.A., The American University; Professorial Lecturer of Language and Foreign Studies.

Kamber, Victor (1984), B.A., University of Illinois; M.A., University of New Mexico; J.D., The American University; LL.M., The George Washington University; Adjunct Professor of Government and Administration.

Kane, Michael J. (1986), B.A., La Salle College; M.A., The American University; Lecturer of Technology and Administration.

Kang, Winifred C. (1983), B.A., Kalamazoo College; Diplôma E'tude, Université de Caen; M.A., Indiana University; Ph.D., University of California; Professorial Lecturer of Language and Foreign Studies.

Kaplan, Wendi R. (1986), B.A., Maharishi International University; Professorial Lecturer of Nursing.

Kapler, Janis Kathryn (1985), B.A., State University of Iowa; J.D., Antioch School of Law; Lecturer of Economics.

Karake, Zeinab (1986), B.A., The College of Business Adminstration, Beirut, Lebanon; M.A., The Catholic University of America; Professorial Lecturer of Business Administration.

Kardaras, Basil (1983), B.A., Northern Illinois University; M.A., Wayne State University; Ph.D., The American University; Lecturer of Sociology.

Karl, John F., Jr. (1986), B.A., M.A., Ph.D., University of Toronto; J.D., The American University; Professorial Lecturer of Law.

Katz, Mark N. (1985), B.A., University of California; M.A., Johns Hopkins University; Ph.D., Massachusetts Institute of Technology; Professorial Lecturer of International service.

Kaufman, Fay M. (1984), B.S., Temple University; Professorial Lecturer of Communication.

Kaufman, Robert Michael (1985), B.A., Columbia University; J.D., Harvard School of Law; Ph.D., Columbia University; Professorial Lecturer of Government and Public Administration.

Kautz, Robin L. (1985), B.F.A., B.A., University of Illinois; M.A., The American University; Lecturer of Performing Arts.

Kaya, Munevver (1984), M.S., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Kazhdan, Rimma A. (1980), Diploma, University of Moscow; Lecturer of Language and Foreign Studies.

Kearsly, Greg (1984), B.S., University of Toronto; M.S., Ph.D., University of Alberta; Lecturer of Government and Public Administration.

Keefe, Joan (1974), B.A., Smith College; M.A., Georgetown University; M.A., University of Massachusetts; Lecturer of Language and Foreign Studies.

Keefe-Massaro, Judy (1985), B.A., Rutgers University; Lecturer of Performing Arts.

Keegan, Richard (1983), B.S., United States Naval Academy; J.D., Georgetown University; C.B.M., Stanford University; Professorial Lecturer of Business Administration.

Keene, Wallace O. (1983), B.A., Florida State University; M.B.A., The American University; Lecturer of Technology and Administration.

Kelleher, Michael F. (1979), A.B., Holy Cross College; M.B.A., University of Hartford; Adjunct Professor of Business Administration.

Kelley, John C (1987), B.A., Andrews College; Ph.D., Columbia University; Professorial Lecturer of Technology and Administration.

Kellizy, Abe (1986), B.S., Washington State University; M.S., Oklahoma State University; Ph.D., Clemson University; Professorial Lecturer of Technology and Administration.

Kelly, Jacqueline Ann (1986), University of North Carolina; M.B.A., Georgetown University; Lecturer of Business Administration.

Kendig, William L. (1966), B.S., Ph.D., Elizabeth Town College; M.B.A., The American University; Adjunct Professor of Business Administration.

Kenny, Timothy J. (1984), A.B.Ed., University of Michigan; M.A., University of Oregon; Lecturer of Communication.

Keshavarz, Fereydoon (1984), B.A., B.S., University of Kansas; Lecturer of Mathematics, Statistics, and Computer Science.

Ketcham, Orm W., The Honorable (1982), B.A., Princeton University; LL.B., J.D., Yale University; Adjunct Professor of Law.

Ketchum, Richard (1983), B.A., Tufts University; J.D., New York University School of Law; Lecturer of Law.

Key, Kerim K. (1957), B.S., Robert College (Istanbul); M.A., University of California at Berkeley; Ph.D., The American University; Adjunct Professor of Business Administration.

Khoshnevissan, Shariar (1983), B.S., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Kidd, Milton (1972), B.A., The American University; Professorial Lecturer of Performing Arts.

Killefer, Gail (1985), B.A., Stanford University; J.D., Vermont Law School; Lecturer of Law.

Kimberling, William C. (1982), A.B., M.A., Indiana University; Lecturer of Government and Public Administration.

King, Donna (1985), B.A., Kearney State College; M.Ed., Ed.D., Utah State University; Professorial Lecturer of Literature.

King, Ellen B. (1975), B.A., Boston University; M.A., The American University; Professorial Lecturer of Language and Foreign Studies.

Kinginger, Celeste (1984), B.A., Antioch College; M.A., The George Washington University; Ph.D., University of Virginia; Lecturer of Language and Foreign Studies.

Kinlaw, Dennis C. (1984), Ph.D., The George Washington University; Professorial Lecturer of Government and Public Administration.

Kirchner, Robert (1977), B.A., University of South Florida; M.A., Ph.D., The American University; Adjunct Professor of International Service.

Kirrane, Peter R. (1986), B.S.,University of Maryland; M.S., The American University; Lecturer of Technology and Administration.

Klein, Jessica E. (1986), B.F.A., The American University; M.F.A., Pennsylvania State University; Lecturer of Art.

Klein, Michael (1986), M.A., University of Cluj; M.S., University of Pittsburgh; Lecturer of Technology and Administration.

Kleinman, Ronald W. (1985), B.S.F.S., J.D., Georgetown University; Adjunct Professor of Law.

Kline, Lauren W. (1984), B.A., M.B.A., The George Washington University; Lecturer of Business Administration.

Klinefelter, Craig (1983), B.A., Old Dominion University; Lecturer of Government and Public Administration.

Klosner, Marcia (1979), B.S., M.S., The American University; Lecturer of Business Administration.

Knode, Charles S. (1985), B.S., Duke University; M.S., University of North Dakota; Ph.D., Syracuse University; Professorial Lecturer of Technology and Administration.

Koff, Stephen (1985), B.S., Northern Arizona University; Lecturer of Communication.

Kossow, Joseph (1985), B.A., Trinity College; M.F.A., The American University; Lecturer of Art.

Kotz, Nathan K. (1978), A.B., Dartmouth College; Adjunct Professor of Communication.

Koudry, Herbert (1984), B.A., University of California at Los Angeles; M.S., The American University; Ph.D., Laurence University; Professorial Lecturer of Technology and Administration.

Kraft, James (1985), B.S., Florida State University; M.A., The Catholic University of America; Adjunct Professor of Performing Arts.

Kraft, Stephen S. (1958), A.B., Bucknell University; Adjunct Professor of Art.

Kramer, Marshall Howard (1964), B.E.E., Renselaer Polytechnic Institute; M.E.E., New York University; Professorial Lecturer of Technology and Administration.

Kranz, Harry (1975), B.Litt., Rutgers University; J.D., Ph.D., The American University; Adjunct Professor of Government and Public Administration.

Krivit, Diane (1986), A.B., Brown University; Lecturer of Communication.

Krock, Todd (1985), B.S., Bloomsburg State College; M.A., Gallaudet College; Lecturer of Education.

Kronheim, Steve (1985), B.S., University of Cincinnati; M.A., University of Maine; Lecturer of Psychology.

Kuney, David R. (1985), B.A., J.D., University of Virginia; Professorial Lecturer of Law.

Kupetz, Marilyn (1982), B.A., University of Colorado; M.A., Georgetown University; Professorial Lecturer of Language and Foreign Studies.

Kuzmack, Linda Gordon (1984), B.A., Wheaton College; M.A., Boston University; M.A., Baltimore Hebrew College; Lecturer of History.

Lachter, Stephen H. (1985), A.B., Syracuse University; J.D., Georgetown University; Adjunct Professor of Law.

Lacy, Chiara T. (1986), B.A., University of Palermo, Italy; M.A., The American University; Lecturer of Literature.

Ladino, Michael J. (1982), B.A., University of Maryland; J.D., The Catholic University of America; Lecturer of Law.

Ladizinsky, Ivan R. (1984), Adjunct Professor of Communication.

Lagunes, Fernando (1985), B.S., National Autonomous University of Mexico; M.S., The American University; Lecturer of Technology and Administration.

Laibstain, Richard H. (1986), J.D., Delaware Law School; LL.B., Georgetown University; Professorial Lecturer of Law.

Lamar, Steven R. (1983), B.S., Ohio State University; M.S., Ph.D., Case Western Reserve University; Adjunct Professor of Nursing.

Lamb, Terrell (1986), B.A., University of San Francisco; M.A., University of Missouri; Lecturer of Communication.

Lamberts, Cindy (1984), A.A., Grand Rapids Junior College; B.S., Michigan State University; Lecturer of Economics.

Lane, Brian J. (1984), B.A., Washburn University; J.D., The American University; Lecturer of Law.

Lane, Larry M. (1983), A.B., University of California at Riverside; M.A., University of Mexico; Professorial Lecturer of Business Administration.

Lanser, Susan (1985), B.A., Marquette University; M.A., Ph.D., University of Wisconsin; Professorial Lecturer of Literature.

Lash, Fred C. (1984), B.A., Purdue University; M.S., The American University; Lecturer of Business Administration.

Laskowski, Patricia (1978), B.S., Southern Illinois University; M.S., The American University; Lecturer of Justice.

Lauby, Donna K. (1984), B.A., Saint Frances College; M.S., George Mason University; Lecturer of Business Administration.

Launer, Susan L. (1983), B.A., Brandeis University; J.D., The American University; Lecturer of Law.

Laurie, Clayton D. (1986), B.A., University of Northern Iowa; M.S., University of Nebraska; Lecturer of History.

Lausier, Lucy Marie (1971), B.A., M.A., The American University; Professorial Lecturer of Language and Foreign Studies.

Laws, Page R. (1983), B.A., Wellesley College; M.Phil., Ph.D., Yale University. Professorial Lecturer of Literature.

Lawson, Belford V., III (1986), B.A., Harvard College; M.A.T., Columbia University; J.D., Georgetown University; LL.M., University of Pennsylvania; Lecturer of Law.

Leckie, Hubert (1957), Adjunct Professor of Art.

Lederman, Norman (1981), B.A., M.S., The American University; Lecturer of Physics.

Lee, Mary E. (1976), B.A., Notre Dame College; M.A., M.S., Georgetown University; Professorial Lecturer of Language and Foreign Studies.

Lee, Young-Ho (1982), B.A., M.B.A., Seoul National University; D.B.A., The George Washington University; Professorial Lecturer of Business Administration.

Legat, Mimi (1986), Professorial Lecturer of Performing Arts.

Leidecker, Henning W., Jr. (1984), B.A., The Catholic University of America; Professorial Lecturer of Physics.

Leighton, Gordon Bruce (1984), B.A., Bates College; M.A., Ph.D., University of Virginia; Professorial Lecturer of Literature.

Lenet, Richard Allen (1984), B.S., Maryland University; M.B.A., The American University; Professorial Lecturer of Business Administration.

Lereah, David (1985), B.A., The American University; Ph.D., University of Virginia; Professorial Lecturer of Business Administration.

Lesman, Ann St. Clair (1982), B.A., M.Ed., Duke University; M.A., Ph.D., University of Maryland; Professorial Lecturer of Language and Foreign Studies.

Lesser, Susan Patricia (1985), B.A., Middlesex Polytechnic; M.S., Ph.D., London School of Economics and Political Science; Professorial Lecturer of History.

Levin, Leo (1985), B.A., Yeshiva University; J.D., University of Pennsylvania; LL.D., Yeshiva University; LL.D., New York Law School; Adjunct Professor of Law.

Levin, Sam (1979), B.A., The George Washington University; M.C.S., Columbus University; Adjunct Professor of Business Administration.

Levin-Epstein, Michael (1986), B.A., Union College; J.D., University of Illinois; M.Ed., The American University; Professorial Lecturer of Law.

Levine, Daniel B. (1971), B.A., Colgate University; M.A., The George Washington University; Ph.D., The Catholic University of America; Adjunct Professer of Business Administration.

Levine, Renee C. (1983), A.B., Smith College; M.A., Brandeis University; Professorial Lecturer of History.

Lewis, Daniel J. (1987), B.A., Long Island University; M.S., The American University; Lecturer of Technology and Administration.

Lewis, Michael (1984), A.B., Dartmouth University; J.D., Georgetown University; Professorial Lecturer of Law.

Lewis, Todd J. (1986), B.A., The American University; Lecturer of Art.

Lieber, Gary L. (1985), B.A., J.D., The American University; LL.M., Georgetown University; Professorial Lecturer of Law.

Liger, Benoit (1985), University of Paris School of Law; University of Nancy School of Law; Center Europeen Universitaire; Adjunct Professor of Law.

Lightman, David Michael (1984), B.A., M.A., University of Maryland; Lecturer of Communication.

Limberg, Wayne P. (1984), B.A., Loyola University at Los Angeles; M.A., Ph.D., Georgetown University; Professorial Lecturer of International Service.

Limburg, Kay Bosgraaf (1984), B.A., Grand Valley State College; M.A., Michigan State University; Ph.D., University of Tennessee; Professorial Lecturer of Literature.

Lindeman, Ellen J. (1986), B.A., M.A., The American University; Lecturer of Economics.

Linkins, Linda A. (1983), B.A., Bucknell University; M.A., The American University; Lecturer of Economics.

Lindsay, Emily (1985), B.A., Dickinson College; M.S., The American University; Lecturer of Business Administration.

Lindsay, Robert E. (1985), B.A., Pennsylvania State University; J.D., The American University; Professorial Lecturer of Law.

Lipsett, Missy (1977), M.F.A., Yale University; Professorial Lecturer of Art.

Liss, Jeffrey (1978), B.A., M.A., J.D., University of Michigan; Lecturer of Law.

Lockhart, James Terry (1984), B.A., Auburn University; M.A., The American University; Lecturer of Government and Public Administration.

London, Todd (1983), B.F.A., M.F.A., Boston University; Lecturer of Literature.

Loughran, Thomas J. (1983), A.B., University of Notre Dame; J.D., University of Santa Clara; Lecturer of Law.

Louie, Gary D. (1982), B.M., University of Michigan; Lecturer of Performing Arts.

Loxton, John (1983), B.S., University of Maryland; M.S., The American University; Lecturer of Technology and Administration.

Ludwig, Thomas (1982), B.M., Julliard School of Music; Adjunct Professor of Performing Arts.

Lukacs, Yehuda (1985), B.A., M.A., The American University; Lecturer of International Service.

Lundgren, Kenneth (1984), B.A., Harvard College; M.A., University of Wisconsin; Lecturer of Literature.

Lupu, Damon D. (1984), B.B.A., M.B.A., Adelphi University; Professorial Lecturer of Business Administration.

Lynch, Cornelius J. (1984), A.B., The Catholic University of America; M.A., Georgetown University; Ph.D., The American University; Adjunct Professor of Mathematics, Statistics, and Computer Science.

Maccabee, Bruce (1969), B.S., Horcester Polytechnic Institute; M.S., Ph.D., The American University; Professorial Lecturer of Physics.

MacDonald, Charles L. (1985), B.S.E.E., Oklahoma State University; M.S.E., University of Michigan at Ann Arbor; Ph.D., University of California at Berkeley; Professorial Lecturer of Economics.

Mackenthun, Kenneth (1986), B.A., College of Emporia; M.A., University of Illinois; Adjunct Professor of Biology.

Macrory, Patrick (1980), B.A., M.A., Trinity College; LL.M., The George Washington University; Adjunct Professor of Law.

Maggiore, Ronald P. (1979), B.A., University of Massachusetts at Amherst; M.S., Ph.D., University of Wisconsin; Professorial Lecturer of Education.

Mahfouz, Amal M. (1986), B.S., M.S., University of Alexandria, Egypt; Ph.D., University of California; Professorial Lecturer of Biology.

Mailander, Kizzie (1986), B.S., University of Delaware; M.E., West Chester State College; Lecturer of Physical Education.

Malekzadeh, Abbas (1986), A.A., College of Statistics and Informatic, Tehran, Iran; B.A., Tehran University; M.A., College of Cinema and Television, Tehran, Iran; Ph.D., The American University; Lecturer of International Service.

Mallinckrodt, Anita M. (1986), B.J., University of Missouri; M.A., Ph.D., The George Washington University; Professorial Lecturer of Government and Public Administration.

Malone, David W. (1985), B.S., M.S., University of California; Ph.D., Massachusetts Institute of Technology; Professorial Lecturer of Technology and Administration.

Malone, Eloise F. (1978), B.A., Pennsylvania State University; M.A., The American University; Lecturer of International Service.

Malphrus, Stephen R. (1983), B.A., Washington State University; M.A., Central Michigan University; Lecturer of Technology and Administration.

Manglass, Linda (1984), B.S., Mount Saint Mary's College; M.S., The Catholic University of America; Professorial Lecturer of Nursing.

Manley, Maria (1985), B.A., University of London; M.A., Harvard University; Lecturer of Language and Foreign Studies.

Mann, Wallace H. (1962), B.M., University of Rochester; Professorial Lecturer of Performing Arts.

Mannes, Kathryn Jo (1981), B.A., Brown University; M.Ed., Tufts University; Lecturer of Literature.

Marasciulo, Edward (1984), B.A., University of Miami; M.A., University of Florida; Professorial Lecturer of International Service.

Marchetti, Ronald (1981), B.S., United States Naval Academy; M.A., Chapman College; M.B.A., University of Virginia; Professorial Lecturer of Business Administration.

Marcus, Marilyn L. (1985), B.A., Carnegie–Mellon University; Lecturer of Technology and Administration.

Marcuss, Stanley J. (1986), B.A., Trinity College; M.A., Cambridge University; J.D., Harvard University; Adjunct Professor of Law.

Markman, Joy (1986), B.A., University of California at Los Angeles; J.D., University of California at Davis; Professorial Lecturer of Justice.

Marlow, John (1968), B.A., The American University; Professorial Lecturer of Performing Arts.

Marlowe, Jean G. (1986), B.A., University of North Carolina at Greensboro; M.A., North Carolina State University; M.B.A., Wake Forest University; Lecturer of Literature.

Maronick, Thomas Joseph (1984), B.A., Saint Thomas Seminary; M.S.B.A., University of Denver; Ph.D., University of Kentucky; J.D., University of Baltimore School of Law; Adjunct Professor of Business Administration.

Marquez-Ruarte, Jorge R. (1982), Licenciatura en Economia, Universidad Nacional de Tucuman; M.A., Ph.D., University of Chicago; Professorial Lecturer of Economics.

Marshak, Robert (1985), B.A., Duke University; M.P.A., Ph.D., The American University; Adjunct Professor of Government and Public Administration.

Marticello, Daniel N. (1981), B.S., M.S., Syracuse University; Professorial Lecturer of Mathematics, Statistics, and Computer Science.

Martin, Frederick T. (1970), B.A., University of Maryland; M.P.A., The American University; Professorial Lecturer of Mathematics, Statistics, and Computer Science; Technology and Administration.

Martin, John Frederick (1986), B.A., M.A., Ph.D., Harvard University; Professorial Lecturer of History.

Martin, Susan (1984), B.A., Swarthmore College; M.S., University of Rochester; Ph.D., The American University; Professorial Lecturer of Justice.

Massoglia, Donald (1986), B.S.B.A., Michigan Technological University; Lecturer of Business Administration.

Mastropaolo, John (1979), A.A., Nassau Community College; B.A., State University of New York at Stony Brook; Lecturer of Psychology.

Mathews, Craig (1984), B.A., J.D., Yale University; LL.M., Georgetown University; Adjunct Professor of Law.

Mathews, John R. (1986), B.A., Yale University; M.A., Ph.D., Cornell University; Professorial Lecturer of Literature.

Mathews, Nancy L. (1984), B.A., New York University; M.A., Ph.D., University of Maryland; Professorial Lecturer of History.

Mayo, Louis Allen (1984), B.A., California State University; M.A.P.A., Ph.D., The American University; Adjunct Professor of Justice.

McAuliffe, John F. (1982), B.A., Montgomery College; J.D., The American University; Lecturer of Law.

McBride, Sharon A. (1986), B.A., M.A., The American University; Lecturer of Psychology.

McCarthy, Colman (1984), B.S., Spring Hill College; Professorial Lecturer of Government and Public Administration.

McCarty, Joan F. (1985), B.A., The King's College; M.A., Middlebury College; Lecturer of Language and Foreign Studies.

McCloskey, Margaret (1984), B.S., DePaul University; J.D., Loyola University; Lecturer of Law.

McCormick, Anne E. (1983), B.A., Wheeling College; Lecturer of Literature.

McCormick, Matthew H. (1986), B.S., J.D., University of Oregon; Lecturer of Communication.

McCoy, Candace (1986), B.A., Hiram College; M.A., University of California; J.D., University of Cincinnati College of Law; Professorial Lecturer of Justice.

McDaniel, Michael (1986), B.A., University of Delaware; M.A., Loyola University; M.Phil., Ph.D., The George Washington University; Lecturer of Human Resource Development.

McDonald, Jean Graves (1986), A.B., Baker University; M.A., University of Missouri; Ph.D., Michigan State University; Professorial Lecturer of Government and Political Science.

McDowell, Gary L. (1986), B.A., University of South Florida; M.A., Memphis State University; M.A., University of Chicago; Ph.D., University of Virginia; Professorial Lecturer of Government and Public Administration.

McGrath, Vincent J. (1983), B.S., University of Nebraska; M.S., The American College; Lecturer of Business Administration.

McKay, Bruce (1986), B.S., The Pennsylvania State University; Ed.D., The University of Massachusetts; Lecturer of Government and Public Administration.

McKay, Raymond R. (1980), A.B., Culver-Stockton College; M.S., Southern Illinois University; Ph.D., Ohio State University; Lecturer of Business Administration.

McKenna, Johanna (1984), B.S., State University of New York; P.N.P., University of Virginia; M.S.N., The Catholic University of America; Lecturer of Nursing.

McLaughlin, Ann L. (1985), B.A., Radcliffe College; Ph.D., The American University; Professorial Lecturer of Literature.

McLellan, Joseph (1985), A.B., M.A., Boston College; Adjunct Professor of Literature.

McMillin, Larry (1984), B.S.E., M.S., University of Michigan; Ph.D., Iowa State University; Adjunct Professor of Mathematics, Statistics, and Computer Science.

McNamarra, Robert (1985), B.A., Georgetown University; M.Litt, Trinity College; Lecturer of Literature.

McOmber, Dale R. (1985), B.S., M.A., Bowling Green State University; Adjunct Professor of Government and Public Administration.

McQuaid, Linda G. (1985) B.A., University of Michigan; Lecturer of Business Administration.

McQuain, Jeff (1981), B.A., M.A., University of Maryland; Ph.D., The American University; Lecturer of Literature.

Means, Robert C. (1982), B.S., Iowa State University; LL.B., S.J.D., Harvard University; Lecturer of Law.

Meersman, Delight (1987), B.A., The American University; M.A., University of Maryland; Lecturer of History.

Mellor, William H., III (1985), B.S., Ohio State University; J.D., University of Denver College of Law; Professorial Lecturer of Justice.

Menzie, Calvin (1975), B.A., Johns Hopkins University; M.S., The George Washington University; Adjunct Professor of Biology.

Merz, Albert H. (1972), B.M., University of Rochester; M.M., The Catholic University of America; Lecturer of Performing Arts.

Messick, Virginia J. (1986), B.A., The University of Maryland; Lecturer of Business Administration.

Mestre, Eloy R. (1983), B.S., University of Havana; M.A., Ph.D., New School for Social Research; Professorial Lecturer of Business Administration.

Meyer, Douglas S. (1982), B.S., University of Oregon; Lecturer of Economics.

Michta, Natalie C. (1985), B.A., Louisiana State University; M.A., Michigan State University; Lecturer of Literature.

Midkiff, Charles R., Jr. (1977), B.S., M.S., The George Washington University; Adjunct Professor of Justice.

Mihalkanin, Edward S. (1984), B.A., Bradley University; Lecturer of International Service.

Miller, Sarah A. (1984), B.A., Boston University; J.D., The American University; Lecturer of Law.

Miller, Susan L. (1987), B.A., George Washington University; M.A., Ph.D., The Catholic University of America; Professional Lecturer of of Languages and Foreign Studies.

Miller, Terry E. (1983), B.S., Cornell University; M.A., Columbia University Teachers College; J.D., The American University; Lecturer of Law.

Miller, Vivian C. (1971), B.S., District of Columbia Teachers College; M.A., The George Washington University; Adjunct Professor of Education.

Miller, William C. (1985), B.A., University of Maryland; LLB., The George Washington University; Lecturer of Law.

Minckler, David (1985), B.A., Duke University; M.A., University of Virginia; Lecturer of Literature.

Mingo, Roger D. (1985), B.S., Michigan State University; M.S., The George Washington University; Lecturer of Technology and Administration.

Minoff, Iles (1984), B.S., Cornell University; M.S., University of Pennsylvania; M.A., Ph.D., Princeton University; Professorial Lecturer of Literature.

Mirhakkak, Mohammad (1986), B.S., M.S., Tehran University; D. Sc., George Washington University; Professorial Lecturer of Technology and Administration.

Mitchell, Ryland (1981), B.S., University of Richmond; Lecturer of Business Administration.

Miyagi, Kimi (1986), B.A., Miyagi University; M.A., The American University; Lecturer of Language and Foreign Studies.

Moayedi, Roxana (1981), B.A., The National University (Tehran, Iran); M.A., The American University; Lecturer of Sociology.

Moberg, Gregory K. (1986), B.S., Allegheny College; Lecturer of ematics Math, Statistics, and Computer Science.

Modarres-Hakimi, Hossein M. (1982), B.S., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Modarres-Hakimi, Mohammad Reza (1982), B.S., University of Notre Dame; Lecturer of Mathematics, Statistics, and Computer Science.

Moen, Ahmed A. (1981), B.A., The American University of Beirut; M.H.A., University of Michigan; M.P.H., Ph.D., Johns Hopkins University; Professorial Lecturer of International Service.

Mohan, Jeffery A. (1983), B.A., North Carolina State University; M.S., The American University; Lecturer of Government and Public Administration.

Mokatrin, Ahmad (1983), B.A., University of Haifa; M.A., The Hebrew University; Lecturer of Mathematics, Statistics, and Computer Science.

Mond, Robert (1981), B.A., University of Dubuque; M.A., University of Nebraska at Lincoln; M.F.A., University of Wisconsin at Madison; Lecturer of Performing Arts.

Moody, Ellen (1986), B.A., Queens College, CUNY; Ph.D., The Graduate School, CUNY; Professorial Lecturer of Literature.

Moon, Seong-Rae (1985), B.A., Sogang University; M.A., The American University; Lecturer of Business Administration.

Mooney, James W. (1985), B.A., The Catholic University of America; M.A., Rice University; Lecturer of History.

Moore, John W. (1983), A.B., Drew University; LL.B., Duke University; LL.M., University of Illinois; Lecturer of Law.

Moraglio, Joseph (1983), B.S., College of the Holy Cross; Professorial Lecturer of Business Administration.

Morasky, Robert L. (1986), B.S., Ph.D., University of Michigan; Adjunct Professor of Psychology.

Mordaunt, Gail L. (1983), B.A., M.A., Ph.D., State University of New York; Lecturer of Technology and Administration.

Moreau, Talaat (1984), Diploma, University of the Punjab; M.A., The American University; Lecturer of Language and Foreign Studies.

Moreno, Rene (1987), B.A., Cornell University; M.A., Ph.D., Northwestern University; Professorial Lecturer of Economics.

Morris, Grant E., Jr. (1984), B.A., M.B.A., The George Washington University; Lecturer of Government and Public Administration.

Morris, Louis (1980), B.A., Boston University; M.A., New School for Social Research; Ph.D., Tulane University; Adjunct Professor of Business Administration.

Morris, Richard P. (1986), B.S., Illinois Institute of Technology; M.S., Texas Technical University; Lecturer of Mathematics, Statistics, and Computer Science.

Morrissey, Richard D., (1986), B.A., University of Pittsburgh; Lecturer of Communication.

Mothion, Patrice D. (1986), B.A., M.A., University of Caen; Lecturer of Language and Foreign Studies.

Moulton, Harland B. (1970), B.A., M.A., Ph.D., University of Minnesota; Adjunct Professor of International Service.

Mrozowski, Cheryl (1982), B.A., Salve Regina College; Lecturer of Performing Arts.

Muir, Warren (1982), B.A., Amherst College; M.S., Ph.D., Northwestern University; Adjunct Professor of Technology and Administration.

Mulcahy, Robert (1980), Adjunct Professor of Art.

Murphy, Emalee G. (1983), A.D., Oberlin College; J.D., The American University; Lecturer of Law.

Murray, Kathleen (1985), B.A., University of Maryland; M.F.A., The American University; Lecturer of Art.

Musgrove, Philip A. (1978), B.A., Haverford College; M.P.A., Princeton University; Ph.D., Massachusetts Institute of Technology; Adjunct Professor of Economics.

Naas, Webb E. (1979), B.S., Minot State College; M.A., North East Missouri State College; Professorial Lecturer of Language and Foreign Studies.

Nagler, Janet (1983), B.A., University of Maryland; M.Ed., The American University; Lecturer of Education.

Nakassis, Anastase (1982), B.S., University of Athens; Diplome d'etudes, University of Paris IV; Ph.D., University of South Florida; M.S., Johns Hopkins University; Adjunct Professor of Mathematics, Statistics, and Computer Science.

Narduzzi, James L. (1979), A.B., Miami University; M.A., Ph.D., The American University; Professorial Lecturer of Government and Public Administration.

Naylor, Michael W. (1983), A.B., Georgetown University; Lecturer of History.

Nebeker, Frank (1971), A.A., Weber College; B.S., University of Utah; J.D., The American University; Adjunct Professor of Law.

Nelson, Anna Kasten (1986), B.A., M.A., University of Oklahoma; Ph.D., The George Washington University; Adjunct Professor of History.

Nelson, Gayle D. (1986), B.A., University of Michigan; J.D., University of Pennsylvania; Professorial Lecturer of Law.

Neuberger, Carmen G. (1985), B.S., University of Maryland; M.Ed., Ed.D., J.D., The American University; Professorial Lecturer of Education.

Newkumet, Mary Beth (1986), B.A., Saint Mary's College; Lecturer of Communication.

Newman, Neil J. (1972), A.B., Bates College; LL.B., Boston University; Professorial Lecturer of Business Administration.

Nguyen, Ha. L. (1986), B.S., Faculty of Sciences of Saigon; M.S., The American University; Ph.D., Princeton University; Professorial Lecturer of Mathematics, Statistics, and Computer Science.

Nolin, Mary Jo (1984), B.A., M.A., The American University; Lecturer of Sociology.

Norris, Robert L. (1986), B.A., Baldwin-Wallace College; M.A., University of Minnesota; Lecturer of History.

Norris, Stephen (1986), B.A., University of Alabama; J.D., University of Alabama Law School; L.L.M., New York University Law School; Lecturer of Law.

Norton, Sherry (1983), B.A., The American University; M.A., M.A.L.D., Ph.D., Tufts University; Professorial Lecturer of International Service.

North, Percy (1985), B.A., Radford College; M.A., Pennsylvania State University; PH.D., University of Delaware; Professorial Lecturer of Art.

Nour, Shahriar (1983), B.S., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Novotny, Eric (1982), B.A., Colorado State University; M.A., Ph.D., Georgetown University; Lecturer of International Service.

Nyangoni, Betty (1986), B.A., Winston–Salem State University; M.A., Howard University; Ph.D., The American University; Professorial Lecturer of Education.

Oberdorfer, Laura (1980), B.S., Radcliffe College; M.S., The American University; Professorial Lecturer of Language and Foreign Studies.

Oberle, Martha Ann (1977), A.B., Chestnut Hill College; M.A., State University of New York at New Paltz; Professorial Lecturer of Literature.

Obermeier, Joseph G. (1983), B.S., Frostburg State College; M.S., The American University; Lecturer of Technology and Administration.

O'Brien, Raymond Charles (1985), A.B., La Salle College; J.D., University of Virginia; M.Ch.A., The Catholic University of America; Adjunct Professor of Law.

O'Connor, Thomas J. (1981), B.S., United States Naval Academy; M.B.A., Harvard University; Ph.D., Stanford University; Adjunct Professor of Business Administration.

Odell, Roxanne (1985), B.A., St. Lawrence University; Lecturer of Language and Foreign Studies.

O'Donnell, Jean A. (1986), B.A., Sarah Lawrence College; M.A., Maryland University; M.F.A., The American University; Lecturer of Literature.

O'Donnell, Thomas J. (1979), B.S., State University of New York at Brockport; M.A., Ph.D., The American University; Professorial Lecturer of Government and Public Administration.

Ogletree, Charles J., Jr. (1982), B.A., M.A., Stanford University; J.D., Harvard University; Professorial Lecturer of Law.

Okun, Rob (1986), B.A., University of Pennsylvania; J.D., Harvard Law School; Professorial Lecturer of Justice.

Oleszek, Walter J. (1975), B.S., State University of New York; M.A., Michigan State University; Ph.D., State University of New York; Adjunct Professor of Government and Public Administration.

Olin, Deborah Ann (1985), B.A., Colorado College; Lecturer of Psychology.

Olson, Robert L. (1985), B.A., Earlham College; M.A., Ph.D., University of Michigan; Professorial Lecturer of Government and Public Administration.

Oppelt, Robert J. (1984), B.A., North Carolina School of the Arts; Lecturer of Performing Arts.

Orwin, Michele (1985), B.A., The American University; Lecturer of Literature.

O'Toole, Carroll (1985), B.S., U.S. Merchant Marine Academy; M.B.A., Baruch College; Lecturer of Technology and Administration.

O'Toole, John (1984), B.A., University of Iowa; M.A., Columbia University; Lecturer of Communication.

Oulmi, Nourredine (1984), Engineering Degree, University of Algeria; D.E.S.S., University of Paris VI; Lecturer of Mathematics, Statistics, and Computer Science.

Owens, Edgar (1977), A.B., Dickinson College; M.A., Stanford University; Ph.D., Cornell University; Adjunct Professor of Government and Public Administration.

Owsley, Elizabeth (1985), B.S., Virginia Polytechnic Institute and State University; Lecturer of Language and Foreign Studies.

Oxman, Katja (1976), Academy Certificate, Academy of Munich; Research Certificate in Printmaking, Royal College of Art, London; Adjunct Professor of Art.

Pala, William (1984), M.S., Ph.D., The American University; Professorial Lecturer of Physics.

Palmer, Harold D. (1984), B.S., Oregon State University; M.S., Ph.D., University of Southern California; Adjunct Professor of Biology.

Papademetriou, Demetrios G. (1984), B.A., Wilkes College; M.A., Ph.D., University of Maryland; Adjunct Professor of International Service.

Pape, Carsten (1986), Ph.D. (equivalent), Universities of Arhus and Copenhagen; Adjunct Professor of International Service.

Papson, Thomas C. (1984), J.D., Georgetown University; Lecturer of Law.

Park, Robert E. (1987), B.S., B.A., J.D., University of Florida; LL.M., Yale University; Adjunct Professor of Law.

Parker, Ted (1986), B.S., The Catholic University of America; Professorial Lecturer of Performing Arts.

Parloff, Morris B. (1984), B.A., Ph.D., Western Reserve University; M.A., University of Chicago; Adjunct Professor of Psychology.

Parrett, Thomas (1979), B.A., Indiana University; J.D., The American University; Professorial Lecturer of Business Administration.

Parris, D. Elliot (1970), B.A., University College of West Indies; M.A., Ph.D., University of California at Los Angeles; Adjunct Professor of Education.

Parson, Ann (1980), Adjunct Professor of Performing Arts.

Parsons, Sarah Elizabeth (1984), B.S.N., Texas Christian University; M.S., Texas Women's University; Lecturer of Nursing.

Pastan, Linda (1986), B.A., Radcliffe College; M.A., Brandeis University; Adjunct Professor of Literature.

Patterson, Jerry G. (1985), B.S., U.S. Naval Academy; M.S., Navy Postgraduate School; Lecturer of Technology and Administration.

Pauley, Caren Altchek (1985), B.A., William Smith College; M.A., Harvard University; Ph.D., City University of New York; Professorial Lecturer of Language and Foreign Studies.

Pedrick, Irene (1981), B.A., Beaver College; M.A., The American University; Professorial Lecturer of Language and Foreign Studies.

Pellew, Jill Hosford (1984), B.A., Oxford University; M.A., Ph.D., University of London; Professorial Lecturer of Government and Public Administration.

Pepper, Susan A. (1983), A.A., Virginia Intermont College; B.A., The American University; Lecturer of Communication.

Perlman, Ronald S. (1980), B.A., Brooklyn College; J.D., Boston College; Professorial Lecturer of Business Administration.

Perry, Denise E. (1986), B.A., The American University; M.A., New York University; Lecturer of Performing Arts.

Peternel, Joan (1984), B.A., Saint Mary-of-the-Woods College; M.A., Indiana State University; Ph.D., Indiana University; Professorial Lecturer of Literature.

Petrov, Julia A. (1982), M.A., University of Pennsylvania; Lecturer of Language and Foreign Studies.

Philipson, Richard (1984), B.A., Tufts University; M.S., The American University; Lecturer of Business Administration.

Phillips, Patricia (1975), B.A., Drake University; M.A., The American University; Lecturer of Language and Foreign Studies.

Picard, Louis A. (1986), B.A., University of Michigan; M.A., Ph.D., University of Wisconsin-Madison; Adjunct Professor of Government and Public Administration.

Pignone, Mary Magaret (1985), B.A., Trinity College; M.S., Pennsylvania State University; Lecturer of International Service.

Pilzer, Arthur (1986), B.A., Queens College; M.B.A., The American University; Professorial Lecturer of Business Administration.

Piperoglou, J.C. (1985), B.Sc., Thessaloniki University, Greece; B.A., University of Wyoming; M.Sc., London University; Professorial Lecturer of Business Administration.

Pittas, Mary (1985), B.A., University of Illinois; M.A., Ph.D., University of maryland; Professorial Lecturer of Language and Foreign Studies.

Piurek, Joan (1985), B.A., University of Connecticut; M.A., Ph.D., University of California; Professorial Lecturer of Literature.

Pizer, Marvin E. (1986), B.S., The University of North Carolina; D.D.S., The Medical College of Virginia; M.S., University of Pittsburgh; M.A., The American University; Adjunct Professor of Biology.

Plevin, Arlene M. (1986), B.A., M.A., University of Iowa; Lecturer of Literature.

Plubell, Ann Marie (1984), Lecturer of Physical Education.

Pock, Maximillian A. (1973), J.D., University of Iowa; S.J.D., University of Michigan; Adjunct Professor of Law.

Podell, Harold J. (1986), B.I.E., New York University; M.B.A., Syracuse University; M.S.A., University of Alabama; Ph.D., The American University; Adjunct Professor of Technology and Administration.

Polikoff, Nancy D. (1985), B.A., University of Pennsylvania; M.A., The George Washington University; J.D., Georgetown University; Professorial Lecturer of Law.

Pollock, Nancy (1986), B.S., Bloomsburg State College; M.A., Gallaudet College; Lecturer of Education.

Polsby, Maureen (1984), M.D., Northwestern University; Professorial Lecturer of Mathematics, Statistics, and Computer Science.

Pomerance, Robert S. (1986), B.A., Harvard College; J.D., Boston College; LL.M., Georgetown University; Lecturer of Law.

Ponti, Francis (1984), B.S., M.B.A., Drexel University; Professorial Lecturer of Technology and Administration.

Poole, Jillian (1977), A.B., The George Washington University; Adjunct Professor of Performing Arts.

Poole, Kenneth E. (1985), B.A., University of North Carolina at Chapel Hill; M.P.A., The American University; Lecturer of Government and Public Administration.

Portella, John L. (1985), B.A., University of Pittsburgh; M.A., University of Maryland; Ph.D., The American University. Lecturer of International Service.

Portnoy, Mindy A. (1985), B.A., Yale University; M.A., Hebrew Union College; Professorial Lecturer of History.

Powers, Hope R. (1983), B.A., University of Pittsburg; M.B.A., Temple University; Lecturer of Physical Education.

Prentice, Patrick (1984), Lecturer of Communication.

Press, Rebecca (1986), A.B., Columbia University; M.A., New York University; Lecturer of Language and Foreign Studies.

Proctor, Sondra G. (1986), B.A., M.Ed., The American University; Adjunct Professor of Performing Arts.

Pruitt, Steven L. (1984), B.S., Ohio State University; Lecturer of Education.

Rabie, Mohammed (1985), B.S., M.S., Ain Shams University of Cairo; M.A., Ph.D., University of Houston; Adjunct Professor of International Service.

Rado, Pedro (1981), M.A., School of Economics and Social Studies; Lecturer of Economics.

Raines, Lloyd E. (1978), B.S., University of Maryland; M.S.A.J., The American University; Lecturer of Justice.

Raker, Irma S., The Honorable (1982), B.A., Syracuse University; J.D., The American University; Lecturer of Law.

Ramachandran, Sreenivasa (1986), B.E., Bangalore University; M.B.A., University of Delhi; M.Sc., London School of Economics; M.A., University of Chicago; Professorial Lecturer of Business Administration.

Ramsay, William John (1980), B.A., Pennsylvania State University; M.A., The American University; Lecturer of Language and Foreign Studies.

Rask, Robert (1985), B.A., Bowling Green State University; Lecturer of Business Administration.

Rasky, Susan F. (1982), B.A., University of California at Berkeley; M.Sc., London School of Economics; Lecturer of Communication.

Rather, Susan (1985), B.A., Denison University; M.A., University of Delaware; Lecturer of Art.

Ratner, Jonathan (1986), B.A. Harvard University; M.A., M.Phil, Ph.D., Yale University; Professorial Lecturer of Public Financial Management.

Raychaudhuri, Ajitava (1985), B.A., M.A., Jadavpur University; Lecturer of Economics.

Raymont, Henry (1986), B.A., Indiana University; Professorial Lecturer of Communication.

Rea, Helen (1985), B.A., The George Washington University; Lecturer of Performing Arts.

Reed, Johana (1986), B.S., Virginia Commonwealth University; M.S., The American University; Lecturer of Business.

Reed, Judith E. (1986), B.S., Madison College; M.A.S.S., The George Washington University; J.D., The Catholic University of America; Professorial Lecturer of Justice.

Reed, Lucy F. (1986), B.A., Brown University; J.D., University of Chicago; Lecturer of Law.

Reed, Robert K. (1984), B.A., University of Pennsylvania; M.Sc., London School of Economics and Political Science; J.D., Boston College; Professorial Lecturer of Justice.

Reiss, Scott (1985), B.A., Antioch College; Lecturer of Performing Arts.

Rendine, Jr., Robert J. (1985), B.A., The George Washington University; Lecturer of Government and Public Administration.

Renner, Tari (1980), B.A., University of South Florida; M.A., Ph.D., The American University; Professorial Lecturer of Government and Public Administration.

Renwick, Joyce (1985), B.I.S., George Mason University; M.A., Middlebury College; M.F.A., University of Iowa; Lecturer of Literature.

Renwick, Trudi (1985), B.S.F.S., Georgetown University; M.A., University of Wisconsin; Lecturer of Economics.

Resner, Susan (1984), B.S., University of Pennsylvania; M.S.D.N.S., The Catholic University of America; Lecturer of Nursing.

Resnick, Susan (1984), B.A., M.A., The American University; Lecturer of Performing Arts.

Reuter, Peter H. (1986), B.A., University of New South Wales, Sydney, Australia; M.Phil., Ph.D., Yale University; Adjunct Professor of Justice.

Reza-Djavanshir, Gholam (1983), B.S., Azarabadegan University; M.S., The George Washington University; Lecturer of Mathematics, Statistics, and Computer Science.

Richards, Gordon (1985), B.A., McGill University; M.A., Ph.D., University of Chicago; Lecturer of Government and Public Administration.

Richter, Elizabeth (1985), B.A., Antioch College; Lecturer of Communication.

Richter, Rose E. (1980), Bachelor's Diploma, School of Foreign Languages in Munich; M.A., The American University; Lecturer of Languages and Foreign Studies.

Rihani, May (1986), B.A., College Protestant Français, Beirut, Lebanon; M.A., The American University of Beirut; Lecturer of Education.

Rines, Melvin (1986), B.A., University of New Hampshire; O.D., Northern Illinois College of Optometry; Professorial Lecturer of Economics.

Ristau, Bruno Alexander (1984), B.B.A., Cleveland College; J.D., Western Reserve University; LL.M., Georgetown University; Adjunct Professor of Law.

Ritt, Linda (1985), B.A., University of Michigan; Lecturer of Business Administration.

Rizzi, Antoinette (1985), B.A., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Rizzi, Leonard (1982), B.A., The American University; Lecturer of Communication.

Roady, Stephen (1978), A.B., Davidson College; J.D., Duke University; Professorial Lecturer of Law.

Robbins, Esther (1975), B.A., Jewish Theological Seminary, College of Jewish Studies, New York; Lecturer of Language and Foreign Studies.

Roberts, A. Hood (1977), B.A., M.A., University of Florida; Ph.D., University of Wisconsin; Adjunct Professor of Technology and Administration.

Roberts, James C. (1984), B.A., Ohio State University; M.A., The American University; Lecturer of International Service.

Roberts, Michele A. (1985), B.A., Wesleyan University; J.D., University of California; Lecturer of Law.

Robson, Peter A. (1983), B.S., State University of New York; M.S.T.M., The American University; Lecturer of Technology and Administration.

Rock, Michael (1987), B.S., Duquesne University; M.A., Ph.D., University of Pittsburgh; Adjunct Professor of International Service.

Rocque, Emily Adams (1983), B.S., Georgetown University; M.A., Columbia University; Lecturer of Literature.

Rodriguez, Edgardo (1980), B.A., Ateneo de Manila University; M.B.A., University of Hawaii; M.S., Ph.D., Rensselaer Polytechnic Institute; Professorial Lecturer of Technology and Administration.

Rogin, Hilda (1979), B.A., Hunter College; M.A., The American University; Lecturer of Literature.

Rohrbach, Peter A. (1985), B.A., Yale University; J.D., Stanford University; Lecturer of Law.

Rohrer, Robin L. (1985), B.A., M.A., University of Maryland; Ph.D., The Catholic University of America; Professorial Lecturer of History.

Rokni, Mitra (1984), B.A., M.A., The American University; Lecturer of Sociology.

Rollwagon, Florence (1986), B.S., Maryville College; M.S., Fairleigh Dickenson University; Ph.D., Cornell University; Professorial Lecturer of Biology.

Romano, Jaime (1983), B.B.A., B.A., University of Puerto Rico; M.A., The American University; Professorial Lecturer of Art.

Ronayne, Maurice F. (1968), A.B., Colley College; A.M., The American University; Professorial Lecturer of Government and Public Administration.

Ronci, Patricia A. (1984), B.A., George Mason University; M.A., Louisiana Technical University; Professorial Lecturer of Nursing.

Roschwalb, Susanne A. (1979), B.A., Pennsylvania State University; M.A., Georgetown University; Adjunct Professor of Performing Arts.

Rose, Martin (1984), M.S., M.D., J.D., University of California; Professorial Lecturer of Law.

Rosen, Bernard (1975), B.A., M.A., University of Alabama; Distinguished Adjunct Professor in Residence of Government and Public Administration.

Ross, John P. (1985), B.S., University of Maryland; M.A., University of New Mexico; Ph.D., Syracuse University; Adjunct Professor of Government and Public Administration.

Rost, Ronald F. (1984), Ph.D., Northwestern University; M.B.A., Indiana University; Professorial Lecturer of Economics.

Rothenberg, Gilbert S. (1983), B.A., University of Pennsylvania; J.D., The American University; LL.M., Georgetown University; Lecturer of Law.

Rotter, Steve (1983), B.S.B.A., The American University; Lecturer of Business Administration.

Rowan, Jeffrey (1979), B.A., The George Washington University; Lecturer of Psychology.

Rowdybush, J. Brinton (1984), B.A., Antioch College; M.A., Ph.D., University of California; Lecturer of Government and Public Administration.

Roy, Joseph A. (1978), B.S., Georgetown University; M.Ed., University of Chicago; Professorial Lecturer of Language and Foreign Studies.

Roy, Roger C. (1983), B.S., University of New Hampshire; M.B.A., University of Michigan; M.B.A., Boston College; Professorial Lecturer of Business Administration.

Royak-Schaler, Renee (1984), M.Ed., Ph.D., University of Maryland; Adjunct Professor of Nursing.

Rubinoff, Laura (1979), B.S., Northwestern University; M.S., University of Michigan; Professorial Lecturer of Education.

Ruble, Michele Florence (1984), B.A., Coursz Fenelon, Algiers; C.E.L.G., College Universitaire; M.A., McGill University; Professorial Lecturer of Language and Foreign Studies.

Rudolph, Judith Pilzer (1985), B.A., University of Cincinnati; MALS, University of Michigan; Lecturer of Technology and Administration.

Ruffino, Elissa (1981), B.A., Marquette University; M.A., The George Washington University; Lecturer of Education.

Rugh, Timothy R. (1982), B.A., University of Pittsburgh; M.A., The American University; Lecturer of Communication.

Ruiz, Rafael (1977), B.A., St. Gil's College; M.A., St. Charles Divinity College; M.A., University of the District of Columbia; Lecturer of Education.

Rule, Pamela (1984), B.S., The American University; M.A., Ph.D., Arizona State University; Professorial Lecturer of Anthropology.

Rundquist, Paul (1980), B.A., Loyola University; M.A., University of Chicago; Adjunct Professor of Government and Public Administration.

Russell, Diane (1984), B.A., State University of New York at Brockport; Lecturer of Language and Foreign Studies.

Russell, H. Diane (1986), A.B., Vassar College; Ph.D., John Hopkins University; Adjunct Professor of Art.

Russell, Julie (1984), B.S.N., Salve Regina College; M.S.N., The Catholic University of America; Lecturer of Nursing.

Russell, Sherry L. (1981), B.S., Virginia Polytechnic Institute; Lecturer of Language and Foreign Studies.

Russell, William (1982), B.S., Rutgers University; Professorial Lecturer of Business Administration.

Russo-Sprouls, Barbara (1985), B.A., The American University; Professorial Lecturer of Communication.

Ryan, Edward J. (1983), B.S., Siena College; M.S.T.M., The American University; Lecturer of Technology and Administration.

Ryan, James P. (1985), B.A., Wheeling College; Lecturer of Business Administration.

Rycken, Willem (1984), B.S., J.D., Ph.D., University of Louvain; Adjunct Professor of Law.

Sabol, Mollie Jeanne (1985), B.S., Nazareth College; M.S., The Catholic University of America; Professorial Lecturer of Nursing.

Saburi, Neda (1985), B.A., M.A., The American University; Ph.D., Johns Hopkins University; Lecturer of Sociology.

Saini, Uma (1975), B.A., Delhi University; M.A., Indraprastha College; Lecturer of Language and Foreign Studies.

Salisan, John (1984), B.S., The George Washington University; M.S., Ph.D., University of Minnesota; Professorial Lecturer of Technology and Administration.

Samarias, J. Jack (1984), B.S., University of Athens; M.S., Michigan State University; Lecturer of Technology and Administration.

Sanders, Calvin (1984), B.A., Cornell University; J.D., The American University; Lecturer of Law.

Sanders, Charles, L. (1986), B.S., M.S., Howard University; D.P.A., New York University; Adjunct Professor of Communication.

Sanders, Leonard R. (1986), B.A., Johnson C. Smith University; M.Ed., The American University; Lecturer of Education.

Sanders, Ralph (1963), B.S.F.S., M.S.F.S., Ph.D., Georgetown University; Adjunct Professor of Business Administration.

Sanguinetty, Jorge A. (1978), Ph.D., City University of New York; Professorial Lecturer of Economics.

Sanoff, Alvin P. (1979), A.B., M.S., Columbia University; Adjunct Professor of Communication.

Sansbury, David L. (1985), B.S., M.A., Ph.D., Ohio State University; Adjunct Professor of Education.

Sashkin, Marshall (1984), B.A., University of California; Ph.D., University of Michigan; Adjunct Professor of Business Administration.

Sasinowski, Frances J. (1987), B.S., Cornell University; M.P.H., M.S., University of California at Berkeley; J.D., Georgetown University Law Center; Lecturer of Law.

Sastry, M.V. Rama (1981), B.A., Andhra University; M.A., Gujarat University; Ph.D., Iowa State University; Professorial Lecturer of Technology and Administration.

Sato, Shigeko (1986), B.A., San Jose State College; M.F.A., University of Georgia; Lecturer of Art.

Sawyer, John D. (1984), B.S., Louisiana State University; B.S. Southeastern Massachusetts University; J.D., New England School of Law; LL.M., Georgetown University; Professorial Lecturer of Business Administration.

Schaefer, William Paul (1984), B.A., The George Washington University; M.A., Rutgers University; Lecturer of Government and Public Administration.

Schauffler, William B. (1986), B.A., University of Delaware; M.A., The American University; Lecturer of Language and Foreign Studies.

Schepis, Joseph M. (1984), B.A., Georgetown University; M.B.A., The George Washington University; Professorial Lecturer of Business Administration.

Schilling, Cornelia Johanna (1985), B.A., Elmhurst College; M.A. University of Illinois; Lecturer of Language and Foreign Studies.

Schimel, Ruth (1983), B.S., Cornell University; M.A., The George Washington University; Professorial Lecturer of Business Administration.

Schleier, Blanche (1986), B.F.A., New York University; M.A., The American University; Lecturer of Communication.

Schmutzhart, Slaithong C. (1980), B.A., University of the District of Columbia; Lecturer of Art.

Schneider, Dorothy E. (1986), M.S., The American University; Lecturer of Government and Public Administration.

Schneider, Jan (1985), B.A., Brown University; M.I.A., Columbia University; M.Phil., Ph.D., J.D., Yale University; Professorial Lecturer of Law.

Schotta, Sarita Gattis (1984), B.A., B.M., Texas Christian University; Ph.D., Brown University; Adjunct Professor of Business Administration.

Schoumacher, David E. (1986), B.S., Northwestern University; M.S., Medill School of Journalism; Adjunct Professor of Communication.

Schuler, Randall S. (1984), M.B.A., M.L.I.R., Ph.D., Michigan State University; Lecturer of Business Administration.

Schulman, Jeffrey I. (1986), B.A., M.A., Ph.D., University of Wisconsin, Madison; Professorial Lecturer of Literature.

Schultz, Lawrence (1974), B.A., LL.B., Industrial College of Armed Forces; Adjunct Professor of Law.

Schultz, Peter L. (1986), B.A., Wake Forest University; M.A., University of Chicago; Ph.D., Northern Illinois University; Professorial Lecturer of Government and Public Administration.

Schuster, Bonnie S. (1981), B.A., M.A., Vanderbilt University; M.A., University of Vermont; Lecturer of Language and Foreign Studies.

Schwartz, David, (The Honorable) (1986), A.B., New York University; LL.B., Harvard University; Adjunct Professor of Law.

Schwarz, Jerome M. (1976), B.A., University of California at Berkeley; Lecturer of Language and Foreign Studies.

Schwartz, Kathy (1982), B.A., State University of New York; M.A., University of Michigan; Lecturer of Education.

Schwarz, Robin (1979), B.A., University of Wisconsin; Professorial Lecturer of Language and Foreign Studies.

Schwinger, David (1985), B.S., University of Pennsylvania; J.D., The George Washington University; Professorial Lecturer of Law.

Sciulli, David (1983), B.A., Michigan State University; M.A., Ph.D., Columbia University; Lecturer of Government and Public Administration.

Scott, Robert J. (1971), B.S., AAF Institute of Technology; M.S.E.E., M.S.C.S., Ph.D., University of Michigan; Adjunct Professor of Technology and Administration.

Seabold, Walter (1986), A.B., University of Illinois; M.A., Ph.D., TheAmerican University; Professorial Lecturer of International Services.

Seashore, Charles (1986), B.A., M.A., University of Colorado; Ph.D., University of Michigan; Adjunct Professor of Government and Public Administration.

Seashore, Edith W. (1982), B.A., Antioch College; M.A., Columbia University; Professorial Lecturer of Government and Public Administration.

Selden, Ramsay W. (1983), A.B., Duke University; M.A., Ph.D., University of Virginia; Adjunct Professor of Education.

Semiatin, Richard (1985), B.A., Connecticut College; M.A., The American University; Lecturer of Government and Public Administration.

Serrano, Guido (1982), M.B.A., Cornell University; Lecturer of International Service.

Shaban, Henney H. (1985), B.A., George Mason University; M.S., Old Dominion University; Lecturer of Technology and Administration.

Shadman, Ahmad (1981), B.A., Northwestern University; M.A., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Shafer, Barbara (1985), B.A., Hood College; B.A., Brooklyn College; M.A., University of Maryland; Lecturer of Mathematics, Statistics, and Computer Science.

Shafer, Charles (1985), A.B., Marietta College; J.D., Rutgers University; LL.M., University of Illinois; Adjunct Professor of Law.

Shafer, Linda L. (1985), B.A., West Virginia Wesleyan College; M.Div., Union Theological Seminary; Lecturer of Sociology.

Shahin, Gordon T. (1967), B.S., M.B.A., University of Buffalo; M.S., Syracuse University; Ph.D., Ohio State University; Adjunct Professor of Technology and Administration.

Shapiro, David L. (1985), B.A., Harvard College; M.A., Ph.D., University of Michigan; Professorial Lecturer of Justice.

Shapiro, Jonathan (1985), B.A., Northwestern University; J.D., The American University; Professorial Lecturer of Law.

Shapiro, Robert A. (1977), B.A., The American University; J.D., Northwestern University; Adjunct Professor of Justice.

Shapiro, Robert M. (1985), B.A., The American University; M.S., Ph.D., University of Rochester; Professorial Lecturer of Psychology.

Sharara, Mamdouh A. (1983), B.S., Alexandria University, Egypt; Lecturer of Mathematics, Statistics, and Computer Science.

Shaw, Dennis (1985), B.A., St. Bonaventure University; M.A., Johns Hopkins University; Lecturer of Literature.

Shepanek, Helene A. (1974), B.A., M.A., The American University; Professorial Lecturer of Language and Foreign Studies.

Sheridan, Jerome W. (1984), B.A., University of Notre Dame; Lecturer of Economics.

Shields, Elizabeth (1985), B.S., Queen's University (Belfast); M.S., M.B.A., Michigan State University; Lecturer of Business Administration.

Shilling, Marvina (1985), B.A., Lewis and Clark College; M.A., Harvard University; Lecturer of Language and Foreign Studies.

Shinn, Paul L. (1985), B.S., University of Oregon; Lecturer of Government and Public Administration.

Shinn, Rinn-Sup (1965), B.A., Seoul National University; B.A., Princeton University; M.A., Georgetown University; Lecturer of Education.

Shore, Joseph N. (1970), B.A., New York University; M.A., Ohio State University; Adjunct Professor of Justice.

Shore, Milton (1978), A.B., Harvard College; M.A., Ph.D., Boston University; Adjunct Professor of Psychology.

Showalter, John G. (1969), B.S., M.S., Ph.D., The American University; Professorial Lecturer of Physics.

Shreffler, Larry D. (1981), B.S., Florida Technological University; M.B.A., University of Central Florida; Professorial Lecturer of Business Administration.

Shroyer, Sally A. (1979), B.A., Sweet Briar College; M.S., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Shulman, Myra A. (1976), B.A., University of California at Berkeley; M.A., The American University; Professorial Lecturer of Language and Foreign Studies.

Shulman, Roberta F. (1982), B.A., The American University; Lecturer of Communication.

Shuman, Howard E. (1984), B.Litt., M.Litt., Oxford University; B.B.A., University of Michigan; B.S., M.A., University of Illinois; Professorial Lecturer of Government and Public Administration.

Shuster, Rachel L. (1984), B.A., The American University; M.A., State University of New York; Lecturer of Communication.

Siegel, Jonathon P. (1986), B.A., Brooklyn College; M.A., Ph.D., Brandeis University; M.A., George Washington University; Adjunct Professor of Jewish Studies.

Siegel, Michael Eric (1978), B.A., The American University; M.A., Ph.D., Tufts University; Professorial Lecturer of Technology and Administration.

Silard, Stephen A. (1983), B.A., J.D., Harvard University; Lecturer of Law.

Silber, Richard F. (1983), B.S., Beloit College; Lecturer of Law.

Silberman, George (1982), B.A., Brooklyn College; Professorial Lecturer of Technology and Administration.

Silverman, Jerry M. (1983), B.A., California State University; Ph.D., Claremont Graduate School; Professorial Lecturer of International Service.

Simcock, Moina (1984), B.A., Auckland University; M.A., The American University; Lecturer of Language and Foreign Studies.

Simkowitz, Loren M. (1972), B.A., M.A., The American University; Professorial Lecturer of Business Administration.

Simmons, Robert (1984), B.S., United States Air Force Academy; M.S., Massachusetts Institute of Technology; Lecturer of Technology and Administration.

Simmons, Vernon P. (1979), B.S., Oregon State University; M.S., Ph.D., University of California at San Diego; Adjunct Professor of Government and Public Administration.

Simon, Andrew (1985), A.B., Cornell University; J.D., The American University; Lecturer of Law.

Simon, Jacqueline (1985), B.A., The American University; Lecturer of Economics.

Simon, Ronald (1983), B.A., J.D., Harvard University; Lecturer of Law.

Sims, Patsy (1986), B.A., Tulane University; Lecturer of Literature.

Simson, John L. (1985), B.A., M.A., State University of New York at Albany; J.D., State University of New York at Buffalo; Professorial Lecturer of Justice.

Singer, Linda R. (1984), A.B., Radcliffe College; J.D., The George Washington University; Professorial Lecturer of Law.

Sisodia, Jagat (1983), B.S., M.B.A., The American University; Lecturer of Business Administration.

Skelton, Ann M. 1985), B.A., Marycrest College; M.A., University of Bridgeport; Lecturer of Literature.

Sklamm, Stuart R. (1975), B.B.A., B.A., The George Washington University; M.P.A., The American University; Professorial Lecturer of Business Administration.

Smith, Elaine C. (1981), B.A., B.S., University of Pennsylvania; M.Ed., Virginia State University; Professorial Lecturer of Mathematics, Statistics, and Computer Science.

Smith, Gordon (1984), B.S.M.E., Swindon College; M.S.A., D.B.A., The George Washington University; Adjunct Professor of Government and Public Administration.

Smith, Gordon Victor (1974), B.A., Ohio Wesleyan College; M.B.A., Harvard University; Lecturer of Business Administration.

Smith, Joseph T. (1985), B.S., M.D., University of Alberta; J.D., The American University; Professorial Lecturer of Law.

Smith, Kenwyn K. (1983), B.A., M.A., University of Queensland (Australia); M.A., Ph.D., Yale University; Professorial Lecturer of Government and Public Administration.

Smith, Marianna S. (1985), B.S., Purdue University; J.D., University of Indiana; LL.M., University of Texas; Adjunct Professor of Law.

Smith, Noah M. (1973), B.B.A., George Washington University; J.D., Georgetown University; Adjunct Professor of Justice.

Smith, Paul (1984), B.A., Ball State University; Lecturer of Communication.

Snelling, Anastasia Mustone (1985), A.A.M.T., University of Maine; B.S., University of Connecticut; M.S., The American University; Lecturer of Nursing.

Snyder, Jeffrey L. (1985), B.A., J.D., The American University; LL.M., Columbia University; Lecturer of Law.

Sober, Sidney (1980), B.A., City College of New York; M.A., The George Washington University; Adjunct Professor of International Service.

Sokolove, Robert D. (1986), B.A., The American University; J.D., Franklin Pierce Law Center; Lecturer of Law.

Solf, Waldemar A. (1981), A.B., J.D., University of Chicago; Adjunct Professor of Law.

Solomon, Lewis D. (1984), B.A., Cornell University; J.D., Yale University; Adjunct Professor of Law.

Song-Bradford, Linda M. (1972), A.B., University of California at Berkeley; M.S., Georgetown University; Ph.D., The American University; Professorial Lecturer of Language and Foreign Studies.

Sopko, John F. (1983), B.A., University of Pennsylvania; J.D., Case Western Reserve University; Professorial Lecturer of Justice.

Sorett, Stephen (1981), B.A., Yale University; J.D., The George Washington University; Professorial Lecturer of Business Administration.

Soufi, Khaled (1986), B.S., The American University of Beirut; Lecturer of Mathematics, Statistics, and Computer Science.

Spathelf, William (1979), B.A., University of Wisconsin; M.B.A., The American University; Professorial Lecturer of Business Administration.

Specter, Christine (1985), B.S., University of Rochester; M.B.A., Ph.D., The George Washington University; Professorial Lecturer of Business Administration.

Spencer, Charles (1986), B.A., M.A., Marshall University; Lecturer of Communication.

Spinelli, Lawrence (1987), B.A., Drew University; M.A., Georgetown University; M.A., Ph.D., New York University; Professorial Lecturer of Government and Public Administration.

Spivack, Miranda S. (1986), B.A., Sarah Lawrence College; Lecturer of Communication.

Spolar, Christine A. (1984), B.S., Northwestern University; M.A., Ohio State University; Lecturer of Communication.

Spragens, William C. (1986), A.B., M.A., University of Kentucky; Ph.D., Michigan State University; Adjunct Professor of Government and Public Administration.

Sprout, Ronald Van Allen (1984), B.A., Bucknell University; M.A., The American University; Lecturer of Economics.

Staake, Sue Ann (1986), B.A., University of Maryland; Professorial Lecturer of Communication.

Stack, Richard Alan (1984), B.A., Indiana University; J.D., University of Missouri; Lecturer of Government and Public Administration.

Stam, Heidi (1984), B.A., Tufts University; J.D., The American University; Lecturer of Law.

Stambouli, Abdel I. (1981), B.S., University of Algiers; M.S., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Stanhope, Jane S. (1966), B.A., The George Washington University; Professorial Lecturer of Literature.

Stanhope, Thomas A. (1967), B.A., University of Maryland; M.A., The George Washington University; Professorial Lecturer of Literature.

Stanley, Marc (1981), B.A., The George Washington University; B.Laws, The University of Baltimore; Adjunct Professor of Government and Public Administration.

Stanton, Gail M. (1984), B.S.N., University of Bridgeport; M.S.N., Boston University; Professorial Lecturer of Nursing.

Stark, Vivienne R. (1983), B.A., University of Maryland; M.A., The American University; Lecturer of Literature.

Stefen, Marc Allen (1986), B.A., J.D., The American University; Lecturer of Law.

Stein, Paul T. (1979), B.A., University of Maryland; Lecturer of Law.

Steinberg, Alma (1985), B.A., Brooklyn College; M.A., Ph.D., The American University; Professorial Lecturer of Psychology.

Sterling, Eric (1984), J.D., Villanova University; Professorial Lecturer of Justice.

Sterling, Joan M. (1985), B.A., Hampton University; M.A., College of William and Mary; M.S., Old Dominion University; Lecturer of Mathematics, Statistics, and Computer Science.

Stevenson, Gail (1984), B.A., Middlebury College; M.A., University of Oslo; Lecturer of Economics.

Stewart, David P. (1985), B.A., Princeton University; M.A. and J.D., Yale University; LL.M., New York University; Professorial Lecturer of Law.

Stewart, Greig M. (1986), B.A., University of Massachusetts; M.S., University of Maryland; Ph.D., The American University; Professorial Lecturer of Education.

Stiers, Michael (1980), B.A., City College of New York; M.A., Ph.D., The American University; Professorial Lecturer of Psychology.

Stiles, Claudia (1972), B.S., Texas Wesleyan College; Professorial Lecturer of Education.

Stolov, Susan L. (1986), B.A., Syracuse University; Professorial Lecturer of Communication.

Storrs, K. Larry (1979), B.A., Brigham Young University; Ph.D., Cornell University; Adjunct Professor of International Service.

Straiton, Jessmarea (1969), B.A., Juilliard School; B.A., Oklahoma City University; M.A., The American University; Adjunct Professor of Communication.

Straiton, John (1978), B.S., Oklahoma University; M.A., Harvard University; Adjunct Professor of Communication.

Strassburger, Fred (1985), B.A., University of Colorado; Ph.D., Stanford University; Professorial Lecturer of Psychology.

Strauss, John (1986), B.A., Livingston College; M.A., Rutgers University; Lecturer of Literature.

Stromsen, William (1978), B.A., The College of Wooster; J.D., The American University; Professorial Lecturer of Business Administration.

Strzynski, John C. (1985), B.A., Loyola University; J.D., University of Puget Sound; LL.M., The American University; Lecturer of Law.

Stukane, Thomas J. (1982), B.S., Rutgers University; J.D., The American University; Lecturer of Law.

Sturdevant, Annette K. (1984), B.A., M.A., Ph.D., Ohio University; Adjunct Professor of Government and Public Administration.

Sugar, Robert L. (1980), B.A., The American University; Professorial Lecturer of Communication.

Sullivan, John (1980), B.S., U.S. Naval Academy; M.S., Naval Postgraduate School; Professorial Lecturer of Mathematics, Statistics, and Computer Science.

Sullivan, Patrick D. (1984), B.A., Miami University; M.A., Harvard Business School; Lecturer of Business Administration.

Sussan, Sidney (1986), B.S., M.B.A., University of Maryland; Professorial Lecturer of Business Administration.

Swafford, Bill E. (1985), B.S., Delta State College; M.S., University of Southwestern Louisiana; Ph.D., University of Georgia; Adjunct Professor of Mathematics, Statistics, and Computer Science.

Swallow, Wendy W. (1983), B.A., Colby College; M.A., The American University; Lecturer of Communication.

Swertfager, Sharon (1985), A.A., Westchester Community College; A.A., Gallaudet College; Lecturer of Education.

Swift, Bert H. (1987), B.A., University of California; M.P.A., Ph.D., University of Washington; Adjunct Professor of Government and Public Administration.

Sylvester, Patricia (1984), B.A., M.S., The George Washington University; M.S., Georgetown University; Lecturer of Literature.

Szegedy-Maszak, Peter Benedict (1986), B.A., University of Notre-Dame; M.A., The University of North Carolina at Chapel Hill; J.D., Georgetown University; Lecturer of Business Administration.

Tamagna, Jane E. (1977), B.A., University of Maryland; Adjunct Professor of Government and Public Administration.

Tatel, Edith (1983), B.A., University of Michigan; M.A., Northwestern University; Lecturer of Literature.

Taylor, Ann (1982), B.A., Talladega College; M.S., North Carolina Agricultural and Technical State University; Lecturer of Mathematics, Statistics, and Computer Science.

Taylor, Jan (1985), B.A., University of Maryland; Lecturer of Performing Arts.

Taylor, Janice E. (1985), B.A., Bucknell University; M.B.A., University of Rhode Island; Lecturer of Business Administration.

Taylor, Joan L. (1985), B.A., Fisk University; M.A., Atlanta University; Lecturer of Literature.

Taylor, L. Lowry (1984), B.A., University of Washington; M.A., University of Texas at San Antonio; Lecturer of Language and Foreign Studies.

Taylor, Victor J. (1983), A.A., Montgomery College; B.S., The American University; Lecturer of Physics.

Taylor, Willie F. (1985), B.S., M.Ed., Bowie State College; Lecturer of Technology and Administration.

Templeton, Alfred (1978), B.A., Transylvania College; M.A., Eastern Kentucky University; M.P.A., The American University; Professorial Lecturer of Business Administration.

Tennyson, Robert S. (1976), A.B., B.S., B.M., M.M., Indiana University; D.M.A., University of Maryland; Professorial Lecturer of Performing Arts.

Thomas, George S. (1985), B.S., U.S. Military Academy; M.S., Air Force Institute; M.B.A., D.B.A., The George Washington University; Lecturer of Business Administration.

Thomas, Mona Kay (1982), B.A., Wright State University; M.S.W., Ohio State University; Lecturer of Sociology.

Thompson, George Allan (1985), B.F.A., State University of New York at Purchase; M.A., The American University; Lecturer of Performing Arts.

Thompson, Theresa (1984); Lecturer of Business Administration.

Thorne, Oakleigh (1979), B.A., State University of New York; Lecturer of Business Administration.

Thoumi, Francisco (1981), B.A., Universidad de Los Andes; Ph.D., University of Minnesota; Professorial Lecturer of Economics.

Thurm, Samuel (1986), B.A., Dartmouth College; M.B.A., Columbia University; Professorial Lecturer of Business Administration.

Timbrell, Charles (1984), B.A., Oberlin Conservatory of Music; M.A., University of Michigan; Ph.D., University of Maryland; Lecturer of Performing Arts.

Tobal, Carlos Federico (1984), Licenciado in Political Economy, University of Buenos Aires; M.S., Ph.D., University of California at Berkeley; Adjunct Professor of Economics.

Tobias, Susan M. (1985), B.A., The George Washington University; Lecturer of Languages and Foreign Studies.

Toftoy, Charles N. (1982), B.S., United States Military Academy; M.B.A., Tulane University; Professorial Lecturer of Business Administration.

Tolstoy, Vladimir S. (1986), B.A., Hobart College; M.S.L., Georgetown University; Professorial Lecturer of Language and Foreign Studies.

Tomkalski, David A. (1981), B.Ed., University of Toledo; M.A., Western Michigan University; Lecturer of Physical Education.

Toney, Marcy A. (1982), A.B., Washington University; J.D., Georgetown University; Lecturer of Law.

Toobin, Michael D. (1978), B.A., The American University; J.D., University of Connecticut; Professorial Lecturer of Government and Public Administration.

Torrey, William (1985), B.A., Washington and Lee University; M.A., The American University; Professorial Lecturer of Communication

Torsch, Mary E. (1985), B.A., University of Illinois; R.N., The Johns Hopkins University; M.S., University of Maryland; Professorial Lecturer of Nursing.

Tosti, Mark (1986), B.A., Princeton University; M.A., Columbia College; J.D. The American University; Professorial Lecturer of Law.

Toth, Joseph (1985), M.S., University of Babes-Bolyai; Lecturer of Technology of Administration.

Truitt, Mary McConnell (1986), B.A., Sarah Lawrence College; M.A., Columbia University; Lecturer of Literature.

Tschudy, Ted Nelson (1981), B.A., Kent State University; M.A., Ph.D., The American University; Adjunct Professor of Government and Public Administration.

Turner, Susan St. Clair (1985), B.A., University of Maryland; Lecturer of Performing Arts.

Tussey, Phoebe J. (1986), B.A., University of Kentucky; M.A., Purdue University; Ph.D., University of Wisconsin; J.D., University of Texas School of Law; Lecturer of Literature.

Twohig, Paul T. (1986), B.S., University of Massachusetts; Ph.D., University of Cincinnati; M.A., Ph.D., University of Virginia; Professorial Lecturer of Psychology.

Tyson, Janet L. (1977), B.A., M.A., The American University; Professorial Lecturer of Language and Foreign Studies.

Ukpolo, Victor (1984), B.A., University of Maryland; M.A., The American University; Lecturer of Economics.

Urban, Theodore W. (1986), B.S., Cornell University; J.D., The Catholic University of America; Lecturer of Law.

Urciolo, John (1981), B.S., M.S., The American University; Professorial Lecturer of Business Administration.

Uyeda, Susumu (1982), B.S., University of California at Los Angeles; M.P.A., The American University; Adjunct Professor of Business Administration.

Vala, Kamyar (1984), B.S., M.A., The American University; Lecturer of International Service.

Van Hollen, Christopher (1984), B.A., Haverford College; Ph.D., Johns Hopkins University; Distinguished Adjunct Professor of International Service.

Vannier, Marie Christine (1986), B.A., M.A., University of Caen; Lecturer of Language and Foreign Studies.

Van Order, Robert (1985), B.A., Grinnell College; M.A., University of Essex, England; Ph.D., Johns Hopkins University; Adjunct Professor of Business Administration.

Van Roekel, Karen L. (1985), B.A., University of Iowa; Lecturer of Language and Foreign Studies.

Vann, Linda Kahn (1982), B.S.N., Adelphi University; M.S., University of Maryland; Lecturer of Nursing.

Varga, Edmundo (1985), Diploma, University of Social Studies of Rome; Adjunct Professor of Law.

Varkiani, Ali E. (1984), B.S., Ferdowsi University, Iran; M.S., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Vest, Carl (1980), B.S., Virginia Polytechnic Institute; M.E.A., The George Washington University; Ph.D., The American University; Adjunct Professor of Business Administration.

Vidal, Pedro J. (1985), B.A., The American University; Lecturer of Language and Foreign Studies.

Viehe, Karl William (1972), B.A., M.A., The American University; J.D., LL.M. (M.L.T.), Georgetown University; Professorial Lecturer of Business Administration.

Vrenios, Anastasios (1974), B.M., University of the Pacific; M.M., Indiana University; Lecturer of Performing Arts.

Wachs, Saul Philip (1983), B.A., Temple University; M.A., Jewish Theological Seminary of America; Ph.D., Ohio State University; Professorial Lecturer of History.

Wade, Selma (1975), B.S., District of Columbia Teachers College; Lecturer of Education.

Wagman, Diana (1985), B.A., University of Utah; M.A., The American University; Lecturer of Communication.

Wagner, John (1980), B.A., B.S., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Waite, G. Graham (1985), B.S., LL.B., S.J.D., University of Wisconsin; Adjunct Professor of Law.

Waldman, Mark S. (1982), B.A., M.A., Ph.D., University of Florida; Professorial Lecturer of Economics.

Walisko, William V. (1981), B.S., Syracuse University; Lecturer of Physics.

Walker, Patricia Ruth (1984), B.S.N., Old Dominion University; M.S., University of Maryland; Lecturer of Nursing.

Wallach, John P. (1983), B.S., Middlebury College; M.S., New School for Social Research; Adjunct Professor of Communication.

Walsh, David J. (1984), B.A., M.A., University College Dublin; Ph.D., University of Virginia; Professorial Lecturer of Government and Public Administration.

Ward, Christopher (1986), B.A., M.A., George Mason University; Lecturer of Literature.

Ward, J. LeRoy (1984), B.S., M.S., Southern Connecticut State University; M.S.T.M., The American University; Lecturer of Technology and Administration.

Ward, Phyllis (1985), B.A., M.A., Webster University; Lecturer of Communication.

Watkins, Jane Magruder (1984), B.A., University of Hawaii; M.A., University of Mississippi; Lecturer of Government and Public Administration.

Watkins, Law B. (1980), B.A., Yale University; M.A., The American University; M.A., University of Wisconsin; Ph.D., University of Michigan; Adjunct Professor of Art.

Watkins, Pridgen (1985), B.A., The Citadel; M.S., The American University; Lecturer of Justice.

Watson, Harlan L. (1985), B.A., Western Illinois University; M.A., Georgetown University; Ph.D., Iowa State University; Professorial Lecturer of Physics.

Watson, Michelle Yvonne (1984), B.A., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Watts, John G. (1984), B.S., East Carolina University; M.A., Towson State University; Lecturer of Literature.

Watts, Roderick J. (1984), B.A., Oberlin College; M.Ed., University of Maryland; Lecturer of Psychology.

Way, Alfonso G. (1980), B.A., The American University; Professorial Lecturer of Communication.

Wayland, Marilina Lucca (1985), B.A., University of Puerto Rico; M.S., Louisiana State University; Lecturer of Mathematics, Statistics, and Computer Science.

Webb, Oliver R. (1985), B.A., M.A., The American University; Lecturer of International Service.

Weeks, Dudley (1982), B.A., Duke University; M.A., University of Texas; Ph.D., University of Hawaii; Professorial Lecturer of Public and International Affairs.

Weil, Deborah (1986), B.A., Harvard University; M.A., University of Wisconsin-Madison; Lecturer of Communication.

Weinreb, Alice (1978), B.A., Brandeis University; M.A., The American University; Lecturer of Performing Arts.

Weinreb, Michael P. (1984), B.A., University of Pennsylvania; M.A., Ph.D., Brandeis University; Adjunct Professor of Mathematics, Statistics, and Computer Science.

Weinstein, Nedra (1986), B.A., The University of Connecticut; M.S., Southern Illinois University; M.S., The American University; Lecturer of Government and Public Administration.

Weiss, Arnold H. (1986), B.A., J.D., University of Wisconsin; Adjunct Professor of Economics.

Weiss, Madeline R. (1976), B.A., Queens College; M.S.T.M., Ph.D., The American University; Adjunct Professor of Technology and Administration.

Weiss, Marion (1981), B.A., The Catholic University of America; M.A., New York University; Ph.D., Howard University; Adjunt Professor of Communication.

Weiss, Sharlene M. (1981), B.S., Stanford University; M.A., Michigan State University; Ph.D., University of Maryland; Professorial Lecturer of Physical Education.

Welch, Bernard L. (1983), B.A., Indiana University; B.A., Saint Joseph Seminary; M.Ed., Loyola University; Lecturer of Literature.

Welt, Rhoda G. (1974), B.A., M.Ed., The American University; Professorial Lecturer of Education.

Werling, Richard (1984), B.S., M.S., University of California at Berkeley; M.P.A., D.P.A., University of Southern California; Professorial Lecturer of Technology and Administration.

Werner, Anna (1983), B.A., Eotvos L. University, Hungary; Lecturer of Mathematics, Statistics, and Computer Science.

Werner, Carol (1977), B.A., Ithaca College; M.A., University of Michigan; Professorial Lecturer of Language and Foreign Studies.

Wesberry, James (1985), B.B.A., Georgia State University; L.L.D., Atlanta Law School; M.P.A., The American University; Professorial Lecturer of Business Administration.

Westermeier, J. T. (1985), B.S., United States Military Academy; J.D. The American University; M.B.A., LL.M., The George Washington University; Professorial Lecturer of Law.

Westley, Joan E. (1985), B.A., Oberlin College; M.A.T., Yale University; Lecturer of Language and Foreign Studies.

Wheaton, Richard H. (1984), B.S., University of California at Los Angeles; M.B.A., University of Southern California; Lecturer of Government and Public Administration.

White, Louise G. (1984), B.A., Smith College; Ph.D., The American University; Professorial Lecturer of International Service.

Whitman, Carl E. (1982), B.A., The American University; Lecturer of Technology and Administration.

Whittleton, Thomas (1980), B.A., Providence College; M.A., The American University; Professorial Lecturer of Business Administration.

Wilcox, Clyde (1985), B.A., West Virginia University; M.A., Ph.D., Ohio State University; Professorial Lecturer of Government and Public Administration.

Wiles, Ronald (1984), B.S.F.S., M.A., Georgetown University; M.S.S.S., The George Washington University; Professorial Lecturer of Technology and Administration.

Wilkinson, Robert N. (1984), A.B., University of North Carolina at Chapel Hill; M.S., The George Washington University; Professorial Lecturer of Technology and Administration.

Willette, Bonnie (1976), B.A., M.A., The American University; Professorial Lecturer of Communication.

Williams, Harumi (1986), B.A., Aoyama Gakuin University; M.S., Georgetown University; Lecturer of Language and Foreign Studies.

Williams, Hollis (1986), B.A., University of Pennsylvania; Lecturer of Physics.

Williams, James F. (1983), B.B.A., City University of New York; M.A., University of Maryland; Adjunct Professor of Technology and Administration.

Williams, Robert C. (1981), B.A., M.A., Wayne State University; Professorial Lecturer of Language and Foreign Studies.

Williamson, Donald (1985), B.A., Hamilton College; M.B.A., J.D., Cornell University; LL.M., Georgetown University; Professorial Lecturer of Business Administration.

Williamson, William S. (1981), B.S., United States Naval Academy; M.S., University of Southern California; M.A., D.P.A., Nova University; Professorial Lecturer of Government and Public Administration.

Wilson, Robert W. (1985), B.A., Shepherd College; M.A., The American University; Professorial Lecturer of Government and Public Administration.

Winn, Gregory F.T. (1986), A.B., Columbia University; M.A., New York University; M.A., Ph.D., University of South California; Professorial Lecturer of Government and Public Adminstration.

Winner, Edward G. (1982), A.B., M.A., The Catholic University of America; Professorial Lecturer of Education.

Wolfe, James H. (1985), B.A., Harvard University; M.A., University of Connecticut; Ph.D., University of Maryland; Adjunct Professor of International Service.

Wolff, Mary R. (1978), B.A., Northwestern University; Professorial Lecturer of Art.

Wolk, Stephen (1986), B.A., University of Pennsylvania; M.A., Glassboro State College; Ph.D., Temple University; Adjunct Professor of Education.

Wolvin, Andrew D. (1977), B.A., M.A., University of Nebraska; Ph.D., Purdue University; Adjunct Professor of Communication.

Womeldorff, Tom (1985), B.A., Evergreen State College; Lecturer of Economics

Woodall, Barbara S. (1985), B.A., The College of William and Mary; J.D., The George Washington University; Lecturer of Law.

Woods, William W. (1984), B.B.A., University of Michigan; M.A., Ph.D., University of Hawaii; Professorial Lecturer of Government and Administration.

Wright, Linwood C., Jr. (1985), B.A., J.D., Howard University; Lecturer of Law.

Xenos, Michael J. (1974), B.S., United States Military Academy; M.S., University of Arizona; Professorial Lecturer of Technology and Administration.

Yamplosky, Miron (1978), Professorial Lecturer of Performing Arts.

Yanero, Susan P. (1984), B.A., Fairmont State College; M.F.A., The American University; Lecturer of Art.

Yannas, Prodromos N. (1986), B.A., The College of Wooster; M.A., Miami University; Lecturer of International Service.

Yao, Shian-Fong (1985), B.A., Chinese People's University; Lecturer of Sociology.

Yarnall, John (1963), A.B., M.A., Washington Jefferson College; Ph.D., University of Pittsburgh; Adjunct Professor of Literature.

Yeomans, William Randall (1986), B.A., Trinity College; J.D., Boston University; LL.M., Harvard Law School: Lecturer of Law.

Yesbek, W. Robert, Jr. (1979), B.S., University of Maryland; Professorial Lecturer of Physics.

Yin, Robert (1986), B.A., Harvard College; Ph.D., Massachusetts Institute of Technology; Adjunct Professor of Technology and Administration.

Young, Barbara Morris (1985), B.S., Ohio State University; M.F.A., The American University; Lecturer of Art.

Younger, Alexander (1984), A.B., University of Pennsylvania; J.D., The George Washington University; Lecturer of Law.

Zeese, Kevin B. (1985), B.S., State University of New York at Buffalo; J.D., The George Washington University; Professorial Lecturer of Justice.

Zeke, Laszlo (1985), B.A., Eotvos Lorand University; M.S., The American University; Lecturer of Mathematics, Statistics, and Computer Science.

Zeligson, Wendy (1985), B.S., M.S., Northwestern University; Lecturer of Communication.

Ziemke, Linda L. (1984), B.S., West Chester State College; Lecturer of Physical Education.

Zirkle, James (1986), Carson-Newman College; J.D., University of Tennessee; LL.M., Yale Law School; Professorial Lecturer of Law.

Zmirou-Reps, Anne-Marie (1984), M.A., Aix-en-Provence Capes, Abidjan, Ivory Coast; Lecturer of Language and Foreign Studies.

University Administration

Richard Berendzen, *President*
Milton Greenberg, *Provost/Vice President for Academic Affairs*
Donald G. Triezenberg, *Vice President for Development and Planning*
Donald L. Myers, *Vice President for Finance and Treasurer*
Anthony C. Morella *General Counsel*
Michael Gross, *Acting Vice Provost for Student Life*
Robert L. Norris, *Vice Provost for University Programs*
Harry Schuckel, *Assistant Provost/Director of Budget*
Lani Barovick, *Director, Personnel Services*
Kevin Cornell, *Director of Development*
Elizabeth Sibolski, *Director of Planning*
Anita Gottlieb, *Director of University Relations*
Donald D. Dennis, *University Librarian*
Frederic Jacobs, *Dean of Faculties*
Carmen G. Neuberger, *Dean of Students*
Joan Powers, *Director of Financial Aid and Enrollment Services*
Maurice O'Connell, *Director of Admissions*
Donald W. Bunis, *University Registrar*
John Smiell, *Controller*
Joan Leach, *Administrative Assistant to the President*
Rita Alston, *Assistant to the Provost*
Hurst R. Anderson, *Honorary Chancellor*
Betty Bennett, *Dean, College of Arts and Sciences*
Sanford Ungar, *Dean, School of Communication*
L. Lee Knefelkamp, *Dean, School of Education*
William Peters, *Dean, Kogod College of Business Administration*
Frederick R. Anderson, Jr., *Dean, Washington College of Law*
Pat O'Connor-Finn *Acting Dean, School of Nursing*
Robert Cleary, *Dean, College of Public and International Affairs*
Dorothy James, *Dean, School of Government and Public Affairs*
Louis Goodman, *Dean, School of International Service*
Rita Simon, *Dean, School of Justice*
Robert P. Boynton, *Director, Center for Technology and Administration*

Members of the Board of Trustees

Cyrus A. Ansary, *Chair*
Clarence F. Donohoe, Jr., *Vice Chair*
Stuart A. Bernstein, *Secretary*
Anthony C. Morella, *Assistant Secretary*

Gary M. Abramson
Cyrus A. Ansary*
James E. Barrett
Sondra D. Bender
Stuart A. Bernstein*
Paul L. Berry*†
Donald S. Bittinger* †
Francis H. Boland†
Abbey J. Butler*
Joseph P. Carlo*
Edward R. Carr*
Howard F. Cerny
John M. Christie†
Richard S. Cohen
John B. Coleman
George J. Collins*
Francis L. Dale
Nancy H. Dickerson
Clarence F. Donohoe, Jr.
Henry O. Dormann
George F. Ellis, Jr.
Sheldon W. Fantle
Michael R. Forman
Raymond I. Geraldson†
Georgie Anne Geyer
Sylvia K. Greenberg
Linda G. Haft*
Stephen Hartwell
John W. Hechinger
Luther H. Hodges, Jr.
Wallace F. Holladay, Sr.
Ziad H. Idilby*
Adnan M. Khashoggi
Robert P. Kogod*
David L. Kreeger†
Climis G. Lascaris
William T. Leith†
Gloria E. Lemos
R. Robert Linowes
John L. Loeb, Jr.
Kenneth J. Luchs
Martin F. Malarkey
Forrest E. Mars, Jr.
Michael T. Masin
Tom H. Matheny
James K. Mathews†
Ursula Meese
Bradshaw Mintener†
William Moss
Betty Southard Murphy*
Frederic W. Ness†
Tarek Omar*
Neil L. Papiano
Irene Pollin*†
E. Barrett Prettyman, Jr.
Vincent E. Reed
Roland Rice* †
Pauline F. Robbins* †
Albert P. Shirkey†
Ralph D. Smith†
Elmer B. Staats†
Laszlo N. Tauber
Abelardo Lopez Valdez
Mary B. Watkins* †
Mastin G. White†

* Alumna/alumnus of The American University

† Trustee emerita/emeritus

Index of Courses and Course-Number Prefixes

American Studies (02) 205
Anthropology (03) 206
APEL (77) 312
Art: Art History (07) 210
Art: Studio and Design (05) 208
Audio Technology (50) 279
Biology (09) 212
Business Administration .....
  Accounting and Taxation (14) 224
  Finance and Real Estate (13) 221
  International Business (12) 220
  Management (10) 216
  Marketing (11) 219
  Public Relations (16) 229
Chemistry (15) 226
Communication (17) 230
Community Studies (71) 306
Economics (19) 235
Education (21) 240
English Language Institute (74) 310
Government and Public Administration .....
  Political Science (53) 281
  Public Administration (54) 285
  Public Financial Management (28) 250
History (29) 251
Interdisciplinary Studies (75) 311
International Service (33) 258
Jewish Studies (34) 264
Justice (73) 306
Language and Foreign Studies .....
  Advanced and Topics (37) 266
  Elementary and Intermediate (36) 265
  Linguistics (38) 270
Literature (23) 244
Mathematics, Statistics, and Computer Science .....
  Computer Science (40) 271
  Mathematics (41) 272
  Statistics (42) 274
Nursing (46) 275
Performing Arts: Dance, Music, Theatre, and Arts Management (67) 301
Performing Arts: Applied Music (68) 305
Philosophy (60) 295
Physical Education (49) 277
Physics (51) 280
Psychology (57) 292
Religion (61) 297
Sociology (65) 299
Study Abroad (92, 94, 95) 312
Technology and Administration (55) 289
University Honors (01) 205
Washington Semester (56) 292
Women's Studies (76) 311

Index

Absences from class (See Classes, attendance in) 64
Academic advisement, College of Arts and Sciences 68
Academic advising 59
Academic divisions 7
Academic programs 7
Academic regulations, general 59
Academic standards and regulations, undergraduate 21
Academic standards and regulations, graduate 33
Accounting (See Kogod College of Business Administration) 151
Accounts, Office of Student 57
Accreditation 7
ACT (American College Test) 16, 18
Add/drop 61
Administration, university 344
Admission, early 15
Admission, early-decision 15
Admission, graduate 7, 25
Admission, international student 37
Admission, nondegree to degree 35
Admission, nondegree to graduate 26
Admission, nondegree to undergraduate 18
Admission, part-time undergraduate 18
Admission, School of International Service 17
Admission, transfer 15
Admission, undergraduate 7, 15
Admission, Washington College of Law 162
Advanced placement 17
Advancement to candidacy (See also individual teaching units) 31
Advising, academic 59
African and Afro-American Students, Organization of (OASATAU) 56
All But Dissertation (ABD) master's 34
Alumni audit program 62
American College Test (ACT) 16, 18
American Indian adviser (See International Student and Faculty Services) 55
American Studies courses 205
American Studies programs 69
Analytical Chemistry (See Chemistry programs and courses) 83
Anthropology courses 206
Anthropology programs 70
APEL (Assessment of Prior Experiential Learning) (See also Interdisciplinary Studies) 195
APEL courses 312
Archaeology (See Anthropology programs and courses) 70
Art courses 208
Art facilities (See also Art) 6
Art History (See Art programs and courses) 73
Art programs 73
Arts and Humanities, Washington Semester in 69
Arts and Sciences, College of 67
Arts Management (See Performing Arts programs and courses) 124
Assessment of Prior Experiential Learning (APEL) (See also Interdisciplinary Studies) 195
Associate degree 68
Associate degree (See also individual teaching units) 18
Athletic organizations (See also Recreational facilities) 57
Athletics (See Physical Education programs and courses; see also Recreational facilities) 132
Attendance in classes 64
Audio Technology courses 279
Audio Technology programs 78
Auditing 62
Auditing, alumni 62
Auditing, undergraduate benefit 62
Automobiles (See Transportation) 58

Bachelor's degrees 18
Bachelor's/master's degrees 19
Banking facilities 57
Banking, Development (See Economics programs and courses) 95
Biochemistry (See Chemistry programs and courses) 83
Biology courses 212
Biology programs (See also Science, Interdepartmental) 79
Board charges 39
Bookstore (See Campus Store) 57
Botany (See Biology programs and courses) 79
Broadcast Journalism (See Communication programs and courses) 87
Brussels Semester 201
Buenos Aires Semester 201
Bursar (See Student Accounts, Office of) 57
Business Administration courses 216, 229
Business Administration, Kogod College of 151
Business and Economic Communication, National Center for (NCBEC) 203
Business Council for International Understanding (BCIU) Institute 203
Business Management Information Systems (See Kogod College of Business Administration) 151
Business, International (See Kogod College of Business Administration) 151

Calendar, academic 13, 62
Campus Ministries, Center for 54
Campus Store 57
Cancellation of charges 40
Cancellation of classes, emergency 64
Cancellation of courses 64
Candidacy, advancement to (See also individual teaching units) 31
Career Center 197
Caribbean Semester 201
Center for Advanced Studies of the Americas 176
Center for Public Financial Management 171
Certificate programs (See also individual teaching units) 193
Certification of enrollment 60
Chaplain 54
Charges, liability for 61
Check cashing 57
Chemical Toxicology (See Chemistry programs and courses) 83
Chemistry courses 226
Chemistry programs (See also Science, Interdepartmental) 83
Child Development Center 56
Chinese (See Language and Foreign Studies programs and courses) 111
Cinema Studies (See Literature programs and courses; see also Film and Video) 116
Class standing, undergraduate 22
Classes, attendance in 64
Classes, emergency cancellation of 64
Classes, meeting times of 64
CLEG (Communication, Legal Institutions, Economics, and Government) (See Government and Public Administration, School of) 166
CLEP (College Level Examination Program) 17, 18
College Entrance Examination Board Tests 16, 18
Commencement 61
Communication courses 230
Communication programs (See also Language and Foreign Studies programs; International Service, School of) 87
Communication, international (See International Service, School of; see also Communication programs and courses) 175
Communication, Legal Institutions, Economics, and Government (CLEG) (See Government and Public Administration, School of) 166
Community Development (See Community Studies programs and courses) 92
Community Studies courses 306
Community Studies programs 92
Competency requirements, undergraduate 20
Comprehensive examinations, graduate (See also individual teaching units) 31

Computer Science courses 271
Computer Science programs (See also Kogod College of Business Administration; Technology and Administration, Center for) 93
Computer Systems Applications (See Technology and Administration, Center for) 187
Computer systems programs (See Business Management Information Systems, Kogod Collee of Business Administration; see also Computer Science; Technology and Administration, Center for) 151
Computing Center 6
Conduct Council 65
Conduct, code of 65
Confederation Media Commission 56
Confidentiality of student records 64
Consortium libraries 62
Consortium of Universities 69, 176
Consortium of Universities libraries 5
Consortium registration 62
Continuing Education (See also Nondegree study) 193
Contract programs 195
Cooperative Education courses 205
Cooperative Education Program 197
Cooperative Education Program (See also Courses of Instruction) 43, 69
Copenhagen Semester 201
Corrections (See Justice, School of) 183
Correspondence directory 2
Counseling (See Education programs and courses) 101
Counseling, personal (See Psychological and Learning Services, Center for) 54
Course descriptions 205
Course descriptions (See also Courses of Instruction) 63
Course index 345
Course numbering system 63
Court Management (See Justice, School of) 183
Creative Writing (See Literature programs and courses) 116
Credit for experience 195
Credit values 63
Criminal Justice (See Justice, School of) 183
Curricular information, general 62

Dance (See also Performing Arts programs and courses) 57
Dance (See Performing Arts programs and courses 124
Data Processing (See Technology and Administration, Center for) 187
Dean's list 23
Degree requirements, graduate (See also individual teaching units) 31
Degree requirements, undergraduate (See also individual teaching units) 20
Degrees conferred, 1985–1986 academic year 9
Dentistry (See Predentistry) 137
Design (See Art programs and courses) 73
Development Banking (See Economics programs and courses) 95
Development Management (See International Service, School of) 175
Development, international (See International Service, School of) 175
Dining services 58
Diplomacy (See International Service, School of) 175
Dismissal, graduate academic 33
Dismissal, undergraduate academic 22
Dissertation 32
Distributed science (See Interdepartmental Science) 109
Distributive requirements, undergraduate 21
Dormitories (See Office of Residential Life) 55
Dormitories (See Residence halls) 7
Dormitory costs (See Residence hall charges) 39
Drama (See also Performing Arts programs and courses) 57
Drugs, Justice, and Public Policy (See Justice, School of) 183

Eagle 57

Earth science (See Chemistry programs and courses) 83
Economic Communication (See Communication programs and courses) 87
Economic Policy Semester, Washington 202
Economic Policy, Washington Semester in 96
Economics courses 235
Economics programs 95
Education courses 240
Education programs (See also Interdepartmental Science; Mathematics) 101
Education, Mathematics program 120
Employment opportunities 51
Engineering (See Pre-engineering) 135
English (See Literature programs and courses; see also English Language Institute) 116
English as a foreign language (See English Language Institute) 106
English competency requirement, undergraduate 20
English Language Institute 38, 106
English Language Institute courses 310
English requirement, international student 37
English requirement, undergraduate 20
Enrollment, certification of 60
Enrollment, 1985–1986 academic year 9
Environmental Studies (See Biology programs and courses). 79
Evaluation of undergraduates 22
Examinations, final 62
Examinations, graduate comprehensive (See also individual teaching units) 31
Experience, credit for 195

Facilities 7
Faculty (See also individual teaching units) 7
Faculty, adjunct 324
Faculty, College of Arts and Science 67
Faculty, College of Public and International Affairs (See also individual teaching units) 165
Federal Nursing Loan Program (FNLP) 43
Fees 40
Fees, undergraduate application 15
Fellowships 50
Field of study, changes in graduate 34
Field of study, changes in undergraduate 19
Fields of study 11
Fields of study, undergraduate 19
Film and Video (See Communication programs and courses; see also Cinema Studies) 87
Finance (See Kogod College of Business Administration; see also Financial Management, Center for Public) 151
Financial aid 41
Financial Management, Center for Public 171
Financial Management, Public, courses 250
Food services (See Dining services) 58
Foreign Language and Communication Media (See Communication programs and courses; see also Language and Foreign Studies) 87, 111
Foreign Policy Semester 178, 202
Foreign student information (See International student information) 37
Foreign study (See Study abroad) 24
Fraternities 57
French (See Language and Foreign Studies programs and courses) 111
Freshman Forgiveness 22
Full-time status, graduate 33
Full-time status, undergraduate 21

General Education Complement 21
General Education Program 21
General Studies 68, 194, 195
Geology (See Chemistry programs and courses) 83
German (See Language and Foreign Studies programs and courses) 111
Germany Semester 201
Governance, graduate student (See Graduate Student Council) 56
Governance, undergraduate student (See Student Confederation) 56

Government and Public Administration courses 281
Government and Public Administration, School of 166
Government, Washington Semester in American National 168, 202
Grade changes 60
Grade-point average 59
Grade-point average requirement, graduate 31
Grade-point average requirement, undergraduate 20
Grades, communication to students 60
Grading system 59
Graduate credit, undergraduate enrollment for 22
Graduate Student Council 56
Graduate study (See also individual teaching units) 25
Graduate study, College of Arts and Sciences 69
Graduate study, College of Public and International Affairs (See also individual teaching units) 166
Graduation 60
Grants (See Financial aid) 41
Grants, American University 45
Grants, graduate 50
Grants, state 44
Greek (See Language and Foreign Studies programs and courses) 111
Guaranteed Student Loan Program (GSLP) 43

Handicapped students, program accessibility for 66
Health Center, Student 55
Health insurance, international student 38
Health insurance, student 55
Health/Fitness Management (See Physical Education programs and courses) 132
Hebrew (See Language and Foreign Studies programs and courses; see also Jewish Studies) 111
Hindi (See Language and Foreign Studies programs and courses) 111
Hinduism, (See Philosophy and Religion programs and courses) 129
History courses 251
History programs 107
History, university 6
Holidays 62
Honorary societies (See also individual teaching units) 57, 166
Honors Program, University 198
Honors, departmental (see also individual teaching units) 23
Honors, graduation 23
Honors, undergraduate (See also individual teaching units) . 23
Housing charges (See Residence hall charges) 39
Housing, university (See Office of Residential Life) 55
Human Resources (See Government and Public Administration, School of) 166
Humanities, Washington Semester in Arts and 69

Immunizations 66
Incomplete grades 60
Independent reading courses and study projects (See also Courses of Instruction) 64
Infirmary, student (See Health Center, Student) 55
Information Systems (See Technology and Administration, Center for) 187
Information Systems, Management (See Technology and Administration, Center for) 187
Institute for Learning in Retirement 196
Institutes 196
Insurance, international student health 38
Insurance, student health 55
Intercultural Programs, Office of 53
Interdepartmental Science 109
Interdisciplinary Studies 19, 20, 199
Interdisciplinary Studies courses 311
Interlibrary loan service 5
International Affairs (See International Service, School of) ... 175
International Business Center 151
International Communication (See International Service, School of; see also Communication programs and courses) 175
International Development (See International Service, School of) 175
International programs (See Study abroad) 200
International Relations (See International Service, School of) 175
International Service courses 258
International Service, admission to School of 17
International Service, School of 175
International Student and Faculty Services 55
International student information 37
International student registration 38
International students, English for (See English Language Institute) 106
International Students' Association (ISA) 56
International Studies (See International Service, School of) . 175
Internships (See also individual teaching units and Courses of Instruction) 69
Internships (See also individual teaching units) 165
Italian (See Language and Foreign Studies programs and courses) 111

J.D./M.A. program (See International Service, School of) 175
J.D./M.B.A. program (See Kogod College of Business Administration) 151
J.D./M.S. program (See Justice, School of) 183
Jewish Students Association (J.S.A.) 56
Jewish Studies courses 264
Jewish Studies programs (See also Language and Foreign Studies programs and courses; Philosophy and Religion programs and courses) 110
Journalism (See Communication programs and courses) 87
Journalism Institute, Washington 202
Journalism, Washington Semester in 202
Judicial system, student (See Student Confederation) 56
Justice courses 306
Justice System Studies, Washington Semester in 185, 202
Justice, Administration and Organization of (See Justice, School of) 183
Justice, School of 183
Juvenile Justice and Corrections (See Justice, School of) 183

Kay Spiritual Life Center 54
Key Executive Program 174
Kogod College of Business Administration 151

Laboratories, science (See also Chemistry, Physics, Biology) 6
Laboratory, language 6
Language and Area Studies (See Language and Foreign Studies programs and courses; see also International Service, School of) 111, 175
Language and Foreign Studies courses 265
Language and Foreign Studies programs 111
Latin (See Language and Foreign Studies programs and courses) 111
Latino Institute 93
Law (See also Prelaw) 161
Law and International Affairs (See International Service, School of) 175
Law and Justice (See Justice, School of) 183
Law and Society (See Justice, School of) 183
Law enforcement (See Justice, School of) 183
Law, Washington College of 161
Learning disabled program 16
Learning in Retirement, Institute for 196
Learning Services 54
Leave of absence, graduate 34
Leave of absence, undergraduate 23
Liability, university 66
Libraries, consortium 62
Library, law 7
Library, university 5, 7
Linguistics (See Language and Foreign Studies programs and courses) 111
Literature courses 244
Literature programs 116
Living-Learning Center 69
Load, graduate academic 33

Load, undergraduate academic 21
Loans (See Financial aid) 41
Loans, American University 44
Loans, federal 43
London Semester 168, 201

Lucy Webb Hayes School of Nursing 163

Mail service 58
Majors, undergraduate 19
Management Information Systems (See Technology and Administration, Center for) 187
Marketing (See Kogod College of Business Administration) 151
Master's degree, All But Dissertation (ABD) 34
Mathematics competency requirement, undergraduate 20
Mathematics courses 272
Mathematics Education program 120
Mathematics programs 120
Mathematics, Statistics, and Computer Science courses 271
Matriculation, graduate maintaining 33
Meal charges (See Board charges) 39
Media Center 6
Media Studies (See Communication programs and courses) 87
Medicine (See Premedicine) 137
Ministries, campus 54
Minority Affairs, Office of 56
Minors (See also individual teaching units) 20
Mobility Clause 193
Music (See Performing Arts programs and courses) 124
Music facilities (See also Performing Arts) 6
Music organizations 57

Name change 60
National Center for Health Fitness 58
National Direct Student Loan Program, The Carl D. Perkins 43
Newspaper, student 57
Nondegree registration 61
Nondegree study 193
Nondegree study (See also Continuing education) 35
Nondegree study, international student 37
Nonthesis option 32
Nursing courses 275
Nursing, Lucy Webb Hayes School of 163

Off-campus courses 195
Off-campus registration 62
Operations Analysis and Information Systems (See Kogod College of Business Administration) 151
Organic Chemistry (See Chemistry programs and courses) 83
Other organizations 57

Painting (See Art programs and courses) 73
Parent Loan for Undergraduate Students (PLUS) 43
Parking (See Transportation) 58
Pass-fail 60
Pass-fail, undergraduate 22
Payment 40
Pell Grant 43
Performing Arts courses 301
Performing Arts programs 124
Personnel and Industrial Relations (See Kogod College of Business Administration) 151
Philosophy and Religion courses 295
Philosophy and Religion programs (See also Jewish Studies) 129
Photography (See Communication programs and courses) 87
Physical Chemistry (See Chemistry programs and courses) 83
Physical Education courses 277
Physical Education programs 132
Physics courses 280
Physics programs (See also Interdepartmental Science) 133
Placement 198
Poland, study in 201
Polish (See Language and Foreign Studies programs and courses) 111
Political Economy (See Economics programs and courses) 95
Political Science (See Government and Public Administration, School of) 166
Pre-engineering 135
Predentistry 137
Prelaw 136
Premedicine 137
Preprofessional programs 68
Prerequisites, course 64
Preveterinary medicine 137
Print Journalism (See Communication programs and courses) 87
Printmaking (See Art programs and courses) 73
Probation and dismissal, graduate academic 33
Probation and dismissal, undergraduate academic 22
Procurement Management (See Kogod College of Business Administration) 151
Professional societies, student 57
Protection of human subjects 33
Provisional standing, graduate 26
Psychological and Learning Services, Center for 54
Psychology courses 292
Psychology programs (See also Interdepartmental Science) 137
Public Administration (See Government and Public Administration, School of; see also Financial Management, Center for Public; Technology and Administration, Center for) 166
Public Administration and Government courses 281
Public and International Affairs, College of 165
Public Communication (See Communication programs and courses) 87
Public Financial Management courses 250
Public Financial Management, Center for 171
Public Systems Management (See Technology and Administration, Center for) 187
Publications, student 57

Quality points 59

Radio station, student 6, 57
Reading courses, independent (See also Courses of Instruction) 64
Readmission, graduate 26
Readmission, undergraduate 18
Real Estate and Urban Development (See Kogod College of Business Administration) 151
Real Estate Center 151
Records, confidentiality of student 64
Records, student 60
Recreational facilities (see also Athletic organizations) 6
Refund, tuition (See Cancellation of charges) 40
Registration 61
Registration, audit 62
Registration, changes in 61
Registration, consortium 62
Registration, international student 38
Registration, late 61
Registration, nondegree 61
Registration, off-campus 62
Registration, payment for 40
Registration, student responsibility for 61
Regulations, general academic 59
Religion (See Philosophy and Religion programs and courses; see also Jewish Studies programs and courses) 129
Religious counseling (See Campus Ministries, Center for) 54
Religious services (See Campus Ministries, Center for) 54
Repetition of courses 60
Research courses, individual (See Independent reading courses and study projects) 64
Reserve Officer Training Corps (ROTC) 203
Residence Hall Association 56
Residence hall charges 39
Residence halls 7, 55
Residence requirement, graduate 31
Residence requirement, undergraduate 20
Responsibilities, university community 65
Responsibility, student 66
Rights, university community 65
Rome Semester 201
ROTC (Reserve Officer Training Corps) 203

Russian (See Language and Foreign Studies programs and courses; see also History, International Service, and Interdisciplinary Studies) ... 111

SAT (Scholastic Aptitude Test) ... 16

Schedule of Classes ... 66

Scholarly societies, student ... 57
Scholarships (See Financial aid) ... 41
Scholarships, American University ... 46
Scholarships, departmental ... 50
Scholarships, graduate ... 50
Scholarships, state ... 44
Scholastic Aptitude Test (SAT) ... 16
Science teaching (See Interdepartmental Science) ... 109
Science/Technology Policy and Administration (See Technology and Administration, Center for) ... 187
Science, Interdepartmental ... 109
Sculpture (See Art programs and courses) ... 73
Semester-hour requirement, graduate (See also individual teaching units) ... 31
Semester-hour requirement, undergraduate (See also individual teaching units) ... 20
Sociology courses ... 299
Sociology programs ... 141
Sororities ... 57
Spanish (See Language and Foreign Studies programs and courses) ... 111
Sports (See Physical Education programs and courses; see also Recreational facilities) ... 132
Statistics programs ... 145
Statistics courses ... 274
Statute of limitations, graduate ... 34
Stops, financial ... 40
Student Accounts, Office of ... 57
Student Activities and Commuter Affairs, Office of ... 54
Student Confederation ... 56
Student Life, Division of ... 53
Student records, confidentiality of ... 64
Student responsibility ... 66
Student services ... 7
Student Union Board ... 56
Student/faculty ratio ... 7
Study abroad ... 24, 69, 166, 200
Study Abroad courses ... 312
Study projects, independent (See also Courses of Instruction) ... 64
Summer sessions ... 195
Supplemental Educational Opportunity Grants (SEOG) ... 43
Supplemental Loans for Students (SLS) ... 43
Syllabuses ... 63
Systems management (See Technology and Administration, Center for) ... 187

Taxation (See Kogod College of Business Administration) ... 151
Teacher education (See Education programs and courses) ... 101
Teaching English to Speakers of Other Languages (See Language and Foreign Studies programs and courses) ... 111
Technology and Administration courses ... 289
Technology and Administration, Center for ... 187
Technology of Management (See Technology and Administration, Center for) ... 187
Television (See Communication programs and courses) ... 87
Television station, student ... 57
TESOL (See Language and Foreign Studies programs and courses) ... 111
Test of English as a Foreign Language (TOEFL) ... 38
Theatre (See Performing Arts programs and courses) ... 124
Theology (See Philosophy and Religion programs and courses; see also Jewish Studies programs and courses) ... 129
Thesis ... 32
TOEFL (Test of English as a Foreign Language) ... 38
Tools of research (See also individual teaching units) ... 31
Toxicology (See Chemistry programs and courses) ... 83
Transcripts ... 60
Transfer admission ... 17
Transfer credit from undergraduate study abroad ... 24
Transfer credit, graduate study at another institution ... 34
Transfer credit, graduate ... 26
Transfer credit, nondegree to graduate ... 26
Transfer credit, nondegree to undergraduate ... 18
Transfer credit, undergraduate ... 17
Transfer credit, undergraduate, permission to study at another institution ... 23
Translation (See Language and Foreign Studies programs and courses) ... 111
Transportation ... 58
Trustees ... 344
Tuition and fees, payment of ... 40
Tuition assistance, employer or agency ... 41
Tuition benefits, alumni audit ... 62
Tuition benefits, employee ... 41
Tuition benefits, undergraduate course audit ... 62
Tuition cancellation (See Cancellation of charges) ... 40
Tuition exchange, American University ... 46

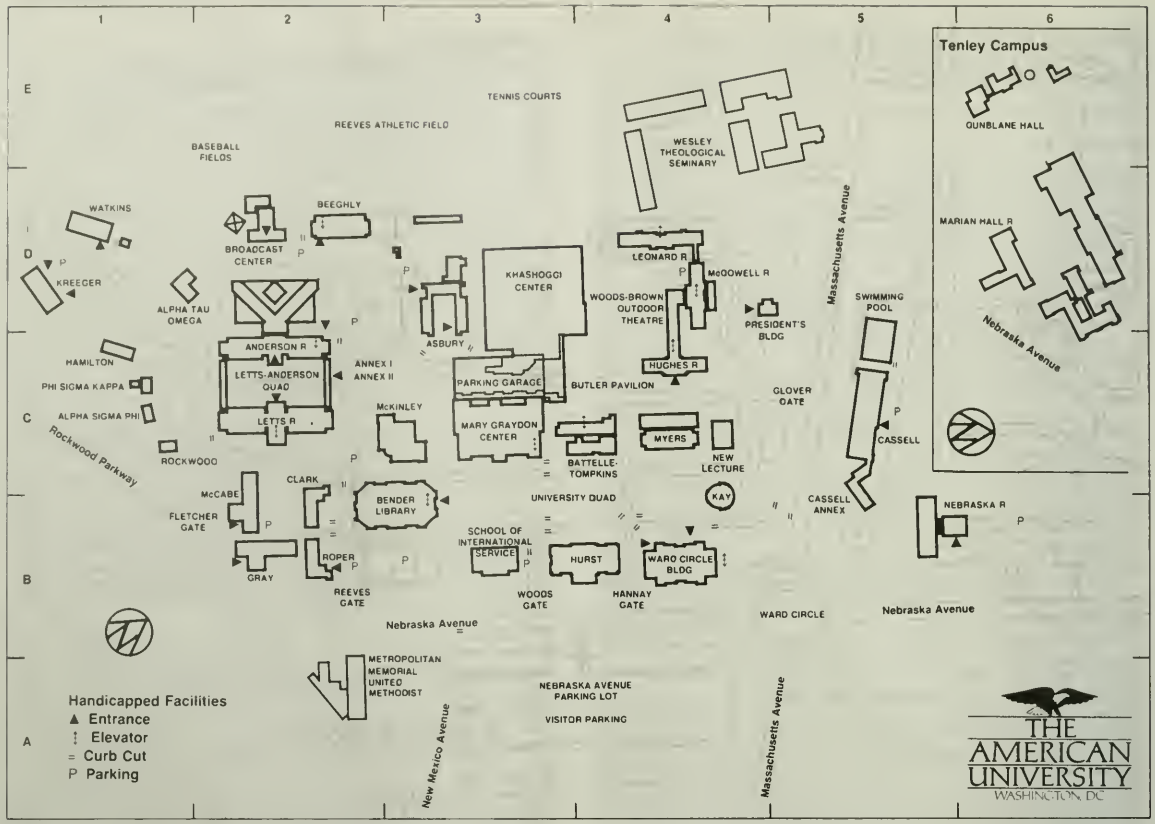
Undergraduate study (See also individual teaching units) ... 15
Undergraduate study, College of Arts and Sciences ... 68
Undergraduate study, College of Public and International Affairs (See also individual teaching units) ... 166
University Honors courses ... 205
University Honors Program ... 198
Urban Affairs (See Government and Public Administration, School of) ... 166
Urban Development, Real Estate and (See Kogod College of Business Administration) ... 151

Vacations ... 62
Values, course credit ... 63
Veterans' benefits ... 51
Veterinary medicine (See Preveterinary medicine) ... 137
Vienna, study in ... 201
Visa requirement, international student ... 37
Visual Media (See Communication programs and courses) ... 87

WAMU-FM ... 6
Washington College of Law ... 161
Washington Economic Policy Semester ... 202
Washington Journalism Institute ... 202
Washington Journalism Semester ... 202
Washington Semester courses ... 292
Washington Semester in American National Government ... 168, 202
Washington Semester in Arts and Humanities ... 69
Washington Semester in Economic Policy ... 96
Washington Semester in Foreign Policy (See Foreign Policy Semester) ... 178, 202
Washington Semester in Journalism ... 89
Washington Semester in Journalism (See Washington Journalism Semester) ... 202
Washington Semester in Justice System Studies ... 185, 202
Washington Semester Program ... 202
Washington Semester Summer Internship ... 202
Washington Summer Seminar ... 168, 195, 202
WAVE-TV ... 57
Withdrawal from the university ... 62
Women's Studies ... 148
Women's Studies courses ... 311
Work-Study Program, College ... 43
Writing (See Literature programs and courses) ... 116
WVAU ... 6, 57

Zoology (See Biology programs and courses) ... 79

The American University Campus



Admissions				Hamilton Bldg.*	C1
Admissions, Washington College of Law				Hughes Terrace	C4
American Studies Program				Hurst Hall	B4
Anthropology, Dept. of				Hurst Hall	B4
Art, Dept. of				Watkins Art Bldg.	D1
Art Gallery				Watkins Art Bldg.	D1
Arts and Sciences, College of				Gray Hall	B2
Biology, Dept. of				Hurst Hall	B4
Bookstore (Campus Store)				Butler Pavilion**	C3
Business Administration, Kogod College of				Battelle-Tompkins Bldg.	C4
Career Center				Butler Pavilion***	C3
Cashier				Asbury Bldg.	D3
Chapel				Kay Spiritual Life Center	B4
Chemistry, Dept. of				Beeghly Bldg.	D2
Communication, School of				Mary Graydon Center	C3
Computer Center				Mary Graydon Center	C3
Continuing Education and Conferences				Nebraska Hall	B5
Dining Services				Mary Graydon Center	C3
Dormitories				Anderson Hall	C2
	Hughes Hall	C4	Letts Hall	C2	Marian Hall D6
	Leonard Hall	D4	McDowell Hall	D4	Nebraska Hall B5
Economics, Dept. of				Roper Hall	B2
Education, School of				Roper Hall	B2
English Language Institute				McKinley Bldg.	C3
Finance and Treasurer, Vice President for				Leonard Hall	D4
Financial Aid and Enrollment Services				Asbury Bldg.	D3
Government and Public Administration, School of				Ward Circle Bldg.	B4
Health Center				Nebraska Hall	B5
History, Dept. of				McCabe Hall	B2
Housing				McDowell Hall	D4
Information Center				Mary Graydon Center	C3
International Service, School of				SIS Bldg.	B3
International Student Office				Mary Graydon Center	C3
Jewish Studies Program				Gray Hall	B2
Justice, School of				Ward Circle Bldg.	B4
Languages and Foreign Studies, Dept. of				Asbury Bldg.	D3
Law Clinic				Cassell Annex	C5
Law Library				Battelle-Tompkins Bldg., side entrance	C4
Law, Washington College of				Myers, John Sherman, Law Bldg.	C4
Library				Bender Library	B3
Literature, Dept. of				Gray Hall	B2
Mathematics, Statistics, and Computer Science, Dept. of				Clark Hall	B2
Nursing, Lucy Webb Hayes School of				McCabe Hall	B2
Parking and Traffic				Clark Hall	B2
Performing Arts, Dept. of				Kreeger Music Bldg.	D1
Philosophy and Religion, Dept. of				McCabe Hall	B2
Physical Education, Dept. of				Cassell Center	C5
Physics, Dept. of				McKinley Bldg.	C3
Provost, Office of the				President's Bldg.	D4
Psychology, Dept. of				Asbury Bldg.	D3
Public and International Affairs, College of				Ward Circle Bldg.	B4
Registrar				Asbury Bldg.	D3
Security, Traffic, and Shuttle Service				Clark Hall	B2
Sociology, Dept. of				McCabe Hall	B2
Sports and Recreation				Adnan Khashoggi Center****	D3
Student Accounts				Asbury Bldg.	D3
Student Life, Division of				Mary Graydon Center	C3
Technology and Administration, Center for				Hurst Hall	B4
University Programs Advisement Center				McKinley Bldg.	C3
WAMU-FM, WVAU-AM				Broadcast Center	D2
Washington Semester and Study Abroad				Dunblane Hall*****	E6
Wechsler Theatre				Mary Graydon Center	C3

Off-Campus

3201 New Mexico Ave., Suite 260: Offices of Alumni Relations, Vice President for Development and Planning, Development, Media Relations, Planning, University Relations

Glover-Tunlaw Apartments

*Before c. May 1987, Asbury Bldg., D3
**Before c. August 1987, Anderson lower level, C2
***Before c. August 1987, Annex I, C2
****Before c. December 1987, Cassell Center, C5
*****Before c. October 1987, McKinley Bldg., C3

Non-Profit Org.
U.S. Postage
PAID
Permit No. 966
Washington, D.C.

BLAES, EVELYN R.
UNIVERSITY LIBRARY
BENDER
CAMPUS
RM #124

HECKMAN
BINDERY INC.
AUG 89
N. MANCHESTER,
INDIANA 46962

DOES NOT CIRCULATE